

VOLUME XCVI

NUMBER SIX

THE NATIONAL GEOGRAPHIC MAGAZINE

DECEMBER, 1949

Map of Classical Lands of the Mediterranean

War-torn Greece Looks Ahead

With 11 Illustrations

21 Natural Color Photographs

MAYNARD OWEN WILLIAMS

Exploring Stone Age Arnhem Land

With 14 Illustrations and Map

25 Natural Color Photographs

CHARLES P. MOUNTFORD

HOWELL WALKER

Adobe New Mexico

With 18 Illustrations and Map

28 Natural Color Photographs

MASON SUTHERLAND

JUSTIN LOCKE

Sheep Airlift in New Guinea

16 Illustrations

NED BLOOD

The Society's New Map of Classical Lands

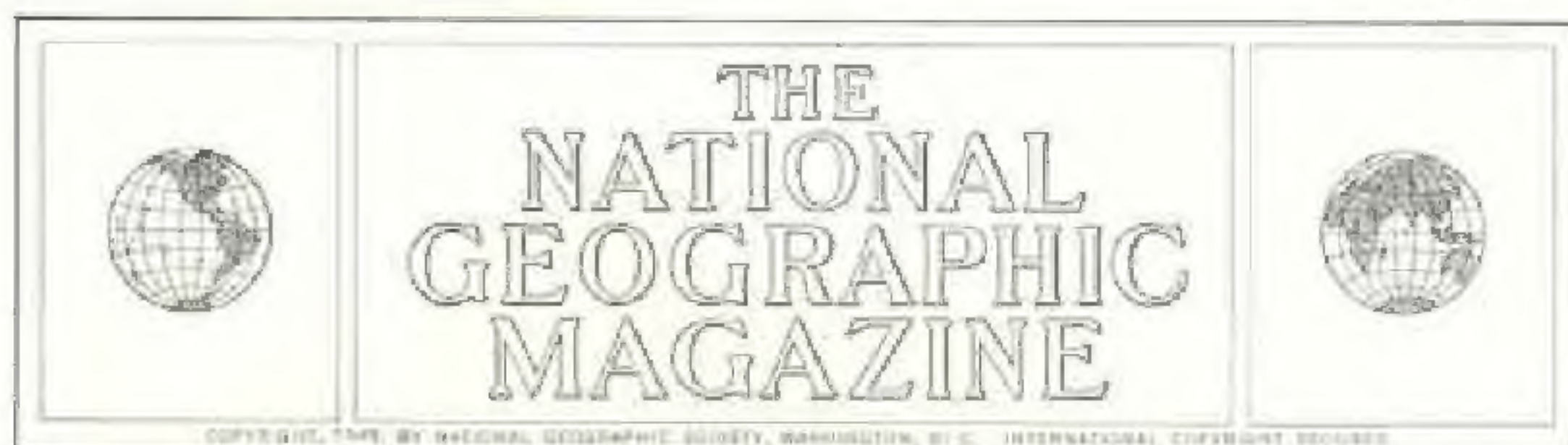
With 1 Illustration

Fifty-six Pages of Illustrations in Color

PUBLISHED BY THE
NATIONAL GEOGRAPHIC SOCIETY
WASHINGTON, D. C.

\$5.00 A YEAR

50c THE COPY



War-torn Greece Looks Ahead

By MAYNARD OWEN WILLIAMS

With Illustrations from Photographs by the Author

ON THE once-barren island of Makronisi, on the tip of Attica,* I watched tough Greek Army officers play the role of the good shepherd.

It is a strange reversal of the Biblical story, in which the good shepherd goes into the hills to find one stray sheep while the other ninety and nine are safe in the fold. For in this instance the ninety and nine are out in the hills away, fighting for Hellas. The lost one, who persists in staying that way, enjoys here the shelter of the strangest fold I have ever seen.

Makronisi, meaning Long Island, has been converted into a novel "concentration camp" where thousands of Communist sympathizers and former guerrilla fighters are being transformed into loyal, democratic citizens (pages 738, 739).

When the Greek Army found Communists or "fellow travelers" among its recruits, the high command decided to isolate them. About two years ago this camp was founded to receive them. Hundreds of captured or surrendered guerrilla fighters were added.

At the time Col. George Bairaktaris conceived the idea of Makronisi, his own brother was a Communist. Knowing his brother's basic loyalty, the colonel sought some way to let him, and thousands like him, prove it.

Of the 21,800 men who have been exposed to its course in regeneration, only 800 have been adjudged incorrigible. There is no harsh or "silent" treatment for those who refuse to swear allegiance to their homeland. There is a general feeling that time is on the side of the right.

At the time of my visit, some 7,800 "Pio-

neers" had returned to the ranks, to fight or die for Greece. Many helped free the Peloponnesus from Communist bands. Thousands now fight in the north. Others, unable to qualify for the Army, have returned to peaceful civilian pursuits.

Long Island is marked with patriotic slogans in whitewashed rocks, visible from miles away. "Hail to King Paul," shouts one steep hillside. "Hail to Hellas," echoes another.

With Col. James H. Phillips, Chief of Staff with the Joint U. S. Military Advisory and Planning Group; Dowsley Clark, Director of Information of the Economic Cooperation Administration; and Mrs. Clark, I went to the island to see this Greek experiment in regeneration.

A Queen's Triumphant Ride

As we reached the mess hall, decorated with Greek, British, and American flags, hundreds of Pioneers flocked up the hill. Here on this barren isle they seemed to be living an abundant life with spirit, vigor, and enthusiasm.

When Queen Frederika visited Makronisi, these men lifted her to their shoulders and paraded her through the camp. Some conservatives humped their eyebrows when the picture was published, but the multitude have taken the petite, hard-working queen to their hearts (page 712).

Colonel Bairaktaris's first step at the camp was to create an atmosphere of civilized behavior, within which neither officer nor comrade could reproach a Pioneer for his past.

* All place names in this article are located on the map supplement, "Classical Lands of the Mediterranean," with this issue of the NATIONAL GEOGRAPHIC.



Queen Frederika, Young, Beautiful, and Democratic, Is the Idol of Greek Soldiers

The German-born, English-reared Queen has won her adopted country's affection by caring for its refugee children (pages 719, 721). She rides the shoulders of repentant Communists on Makronisi. The picture, here rephotographed with a Makronisi "Pioneer," was displayed in Athens (pages 711, 738, 739).

Then, within this favorable environment, each individual is encouraged to "find himself" and develop his talents to the full.

While the heaven is working, Communist propaganda is honestly met in discussion. Makronisi has its own 40-page newspaper and a broadcasting station.

When a Bulgar radio invited the Pioneers to "leave the servitude of camp for the good guerrilla life," Greece's alert Minister of the Press, Michael Ailianos, sparked back:

"I've seen to it that every man on Makronisi has heard your plea. Are you doing the same for your boys?"

Probably not, for despite added help from Albania and Bulgaria, the "good guerrilla life," these days, is not so good.

We entered the mess hall with the men, to drink our ceremonial coffee. Suddenly the sound of magnificent group singing flooded the hall. The composer of the battalion song now fights in the Grammos Mountains. His

stirring words express the common sense:

"To Hellas's sun and waves and much-loved land we pledge ourselves. Our strong Hellenic heartbeat drives us on."

"Christ is risen" pennons, left over from Easter, lent a festive touch. Beside a cardboard bell tower paper swallows had built their nests. Between portraits of King and Queen was a life-sized Christ.

Our luncheon host, a major, was magnetic, handsome, and realistic; his approach that of conviction: "I was a Communist, too, but I got over it. For, despite everything, I am a Greek."

Few malcontents can resist that appeal, although I interviewed some who still do.

Like most of Greece, one man was "tired of fighting." Unlike Greece, he had quit. I could not pry from any of these men any good reason he had for holding out.

Strolling through the company streets, I observed in each one some monument, shaped

like Parthenon or church, the voluntary self-expression of free men.

Returning to Athens, which had endured nine years of war, hunger, occupation, and mass execution, I found the Greeks enjoying a cultural revival.

The national budget, like many another, is out of balance, imports alarmingly exceed exports, one Greek in eight is either a soldier or a refugee, and civil war drags on in the maze of mountains which faces the Iron Curtain to the north.

But as I again walked the familiar streets, apprehension over the fate of my friends gave way to wonder at their spirit. In the serio-comedy of Greek life, gaiety and beauty again grace the stage. To a Greek, tragedy is something dramatists wrote, ages ago, although few Hellenes have escaped its pain.

Art flourishes. Greek painters turn out so much good work that it is difficult to keep up with the excellent portraits, clean water colors, and masterly oils of native life or milk-white church domes by a cobalt sea.

Taking Tea with a Dryad

Pageantry of village costumes and earth-shaking peasant steps are once more in full swing. Several dancing schools stage shows which enliven tired old ruins with visions of dryads or nymphs. It was a memorable experience to take tea with a girl whom I had seen a few days before as a lightly clad figure freed from a time-old pose on some ancient urn.

One Monday night, in summer, within the ancient walls of the Odeion of Atticus Herodes, I sat with 3,000 people on the south slope of the Acropolis and listened to symphonic music by Mozart and Schubert, and by such modern Greek composers as A. Nezerite, G. Poneride, G. Lekeu, and George Sklavou.

Above us, at the edge of the Acropolis, a corner of the matchless Parthenon thrust a shoulder of sun-tanned marble against the velvet sky (page 728).

Flower shops, stooped under the Parliament ramp beside Sofia Boulevard, again glow with dahlias and marguerites, gladiolas, and "red-hot poker." Candy and pastry shops seem as luxurious as ever, especially when one sees the prices.

Constitution Square is still divided into palm-shaded gardens, kept green with precious water, and a vast empty space which suddenly sprouts tables and chairs when the summer sun goes down (page 714).

After the heat of the day, neatly dressed children are brought here by proud parents. Male groups meet for political argument, pref-

aced by the inevitable, "Now if I were Prime Minister . . ." However much Greeks love Greece, Constitution Square orators always seem to belong to the Opposition!

Waiters Dodge Through Traffic

This open-air forum is "provisioned" across three of the busiest streets in Athens. Each thimble of hot, thick coffee; each accompanying dewy glass of water; each sugary pastry; each heat-smoothed cone of ice cream is carried through a maze of buses, trams, private cars, and jaywalkers by waiters who must lead charmed lives. I know some who have survived 20 years of traffic-defying tray carrying.

Slow service is quite in keeping, for people gather here not to eat but to sit. With each bottle of pop one has the right to an evening of gossip or philosophy.

At our roof garden one hears comparatively little Greek, for Athens has acquired an American accent.

Most of the offices of the ECA, which administers American aid under the Marshall Plan (page 718), are in one of Athens's largest buildings, on the site of the former Royal Stables, bounded by America, Venizelos, Jan Smuts, and Winston Churchill Streets. An Army post office brings Greece within two days of Washington by air mail. A post exchange occupies one busy corner. On another corner is a snack bar, serving doughnuts, chocolate malts, and a second cup of coffee free. At the commissary, wives of members of the American Mission for Aid to Greece and of the ECA buy frozen chickens, California oranges, and graham crackers—just like home.

Such arrangements prevent American visitors from depleting local food markets. Since purchases are paid for with military script, no burden is placed on dollar exchange.

Clean, spacious Mission buses run to seaside Glifadha or shady Kifisia, in the cool lap of Mount Pentelikon (Pendelikón), where many of the hotels and houses are leased to Americans at generous rents.

Famous Landmarks Intact

Omonia Square, Athens's Place de la Concorde, has known violence, but I found my favorite landmarks intact. Friends about whose safety I had long wondered greeted me as if nothing had happened since National Geographic photographer Stewart and I worked in Greece in 1939.

Around bright flower beds in the National Garden, so recently a death-haunted potter's field, nursemaids and soldiers flirt as of yore.



Rain Deluges Constitution Square. Athenians Appear to Walk on Water

An English-language sign, "Save the children of Greece from abduction," protests the Communists' seizure of youngsters for indoctrination within the Iron Curtain. High on the misty Acropolis stand the 2,400-year-old Parthenon (left) and the Erechtheum (pages 713 and 725).

At a Near East Foundation playground, equipped with funds from A. A. Hyde of Wichita, Kansas, happy-faced children sang like cherubs under the direction of a former orphan. Near by, 1,180 Greeks were shot down by German execution squads.

Papering the sidewalk kiosks are American magazines and plastic-bound books. Greece craves "food for thought," from Mark Twain and Hawthorne to hard-shooting Westerns and movie-magazine cheesecake.

At Eleftheroudakis's bookstore, a favorite haunt of my father before me, I got a bargain—E. V. Rieu's splendid translation of Homer's *Odyssey*, for 35 cents.

On Athens's Mala Street, only three steps from the summer glare, the United States Information Service Library is crowded all day. "America" is a magic word. Here in such publications as tool catalogues, encyclopedias, the *U. S. News*, the *New Yorker*, and the *NATIONAL GEOGRAPHIC*, the U. S. A. is pictured and described.

Prize-winning photographs line the walls and pertinent—or impertinent—cartoons are shown, with the legends in Greek, so that no one will miss the point.

Here I saw an Orthodox priest with silky beard reading a magazine. When I returned with my camera, he had gone.

"Wait a minute: I'll get another one," said a librarian. And soon through the hot streets plodded Archimandrite Eftychios Papaioannides to add the dignity of beard and robe to this popular meeting place (page 719).

Athens Loves a Parade

Athens loves a parade and the flash of banners. From my balcony overlooking Constitution Square I watched the Sunday procession of virile, skirted Evzones, of the King's Guard Battalion, on their way to the changing of the guard at the tomb of Greece's Unknown Soldier (pages 730, 731).

On St. Paul's Day I looked down on cheering crowds as the smartly uniformed King



Alfred Cook, U. S. Army Engineer

Americans Restore the 1,100-foot Brillos Bridge, Successor to Thermopylae Pass

This wild gorge was bridged when the Simplon Orient Express linked Athens with Paris and Istanbul by rail. During the war retreating Germans did a thorough demolition job. Col. D. W. Griffiths, U. S. Army Engineer, here addresses Greek officials at completion of the reconstruction in April, 1949 (page 711). Historic Thermopylae, no longer an important route, lies a few miles away.

Paul and beautiful Queen Frederika rode to and from the Cathedral ceremony.

Twice in recent months I heard the "Dead March" sound here as the massive Archbishop Damaskinos, onetime Regent and Premier, and frail Premier Themistocles Sophoulis, their coffins bare to the open sky, were borne past toward the grave.

Meanwhile, in the hornet-nest mountains of Epirus, Macedonia, and Thrace, some 200 miles away, the Army parades its heavy trucks as the armament of modern mechanized war moves along mined roads toward ambushed guerrillas. The menace of Stalinism, seeking access to the Mediterranean through Greece, brought America into the picture.

The Greeks saved Western civilization from Oriental despotism when the world was young. Now Greece, hard against the Iron Curtain, defends democracy and we give aid.

After talking with American Mission heads, I asked an old friend, in charge of field men,

where I could accompany one of his legmen and trouble shooters on his rounds.

"How about starting with Crete?"

So I flew to Crete in an hour in a shiny DC-3.

Help from the skies came to Greece just in time. Roads were mined, bridges broken, through road traffic suspended. But silver-bright planes drone over friendly and enemy territory alike, preventing Greece from again becoming a group of isolated city-states, sandwiched between enemy-held hills.

Like flashing spokes around Hassani (El-linikon) Airport, in the honey-scented lap of Hymettus, 15 TAE (Greek Air Lines) routes reach out to Alexandroupolis, Komotini, Kavalla, Salonika (Thessaloniki), Volos, Larissa, Kozani, Ioannina, Agrinion, Tripolis, Kalamata (Kalamata), Khania, Iraklion, to Egypt's Alexandria, and to Rhodes (Ródhos), capital of the long-Greek, but newly won Dodecanese.

Athens is the focus of many foreign air lines, but without its own planes Greece could hardly function as a unit. The loan which the ECA arranged for TAE was to have been paid in 36 months. Instead, it was paid in full in eight.

Athens an Air-line Center

Greek Air Lines has about 20 flights a day from Athens and about 45 a week from other ECA-built fields. Hellenic Air Lines has about half as many.

The man in front of me during my flight to Crete had flown before. His wife, just as obviously, had not. His chivalrous solicitude, as he showed her how to adjust safety belt, ventilator, and seat light and, with exaggerated jaw movement, how to "swallow altitude," was a joy to watch.

Two-hundred-and-thirty-pound tireless John Asher, ECA field representative, pretty well dwarfing his jeep, met my plane near Kaniá, and we were off for a conference on automotive transportation. The long road along narrow Crete brought out the stuff we and our jeep were made of. Along or above it, we bumped doggedly on from Kaniá to Saint Nicholas (Ágios Nikólaos).

Asher, who had ministered to thousands of refugees on their return home when the Peloponnese was freed, found Crete "tame." I found its transportation as wild as in 1929.*

New buses had already been landed in Crete. A few weeks later road building was to begin. As fast as the roadmakers advanced, the buses would follow. For the moment, John Mickam, ECA automotive specialist, was meeting the operators, listening to their problems, and acting as their contact man with the authorities in Athens.

"You're going to have compulsory inspections, twice a year," he said. "When your bus or truck has been inspected, you'll know that it's safe. Dangerous vehicles will be taken off the roads."

In Athens, 180 ambitious young men build aluminum bus bodies on American chassis during half of each day. The rest of the time they study the theory of mechanics, shop procedure, and mathematics.

One new bus leaves their hands every day. Tumble-down buses, common when I arrived, have almost disappeared from the streets of Athens.

How much does a resplendent, soft-seated bus, its chassis built in South Bend or Detroit and its body built in Greece under American patents, cost the American taxpayer?

Not a cent.

When an operator's license is approved, he

buys the machine he likes in the private market. What with transportation costs and taxes, he pays about twice as much as the same car would cost in Kalamazoo. What the ECA does is to change his drachmas into dollars.

The Greek money goes into a counterpart fund, to pay for roads, bridges, ports, canals, and other public works. But since Greece is fighting a costly civil war against Communist-aided guerrillas, much of the counterpart fund now bolsters a budget depleted by military expenditures and refugee relief.

Back in Kaniá, after a cross-Crete scramble to study irrigation sites in the rich Messara plain to the south, we enjoyed a trip to Suda Island, at the entrance of many-walled Suda Bay (Kólpos Soudhas). When our launch grounded at Kalivia on our return, we were greeted with smiles and flowers.

Favorite son of Kaniá was Eleutherios Venizelos, World War I statesman and confidant of Woodrow Wilson. In memory of the Cretan diplomat his widow has built a splendid stadium, where we saw such athletic contests as the Greeks call "agonies." Well-muscled young men and shapely maids in modish shorts gave the Cretan capital a collegiate air.

In the home of G. S. Naxakis, author and alpinist, I made some Kodachromes of his daughter Iolanthe and her charming friend, "Helen of Troy" Nicolopulo.

Within Earshot of Guerrilla War

From peaceful Crete, hungrily anticipating the biggest olive crop on record, I went to the other extreme with a flight to Ioánnina and Kastoria over enemy-held hills. The towns still echo to the sound of civil war, but, cleared of guerrillas, serve as military bases and refugee camps.

Lt. Stephen Merrill, who speaks Greek like a native, accompanied me (page 733). At Ioánnina we were met by ECA field man Mike Adler, brimming over with ideas, who took us to "children's city," feeding station and refugee camp. The Paidoupolis, City of Children, is an all-too-frequent feature of Greek life. But they are wonderful havens for the homeless.

With its high-perched old citadel overlooking a charming lake, Ioánnina is the chief city of Epirus (page 740). From it Greek

* See, in the NATIONAL GEOGRAPHIC MAGAZINE: "Crete, Where Sea-Kings Reigned," by Agnes N. Stillwell, November, 1943; "Cruising to Crete," by Marthe Oullé and Mariel Jean-Brunhes, February, 1929; and "Sea-Kings of Crete," by James Baikie, January, 1912.



Girls' Wars from Macedonia

Greek Army Recruits, Trained by a Kilted British Major, Climb Ropes Like Gymnasts

Ancient Greeks had a word for such a drill—*agonia* (contest or struggle) they called it. Anyone who has seen the contorted faces at the finish of a race will understand the derivation of our word "agony." Americans now guide the Greeks on strategic levels, but Britons remain on the job as army instructors.

Commandos make forays against ambushed mountaineers. To it flocked refugees and prisoners of war. Some are already homeward bound to their ruined villages.

In the prison courtyard we talked with some Amazons who had served with the guerrillas, but now were about to go home. A few had joined up of their own accord, but most were forced into guerrilla life.

In a splendid old estate the girls of the National Girls Orphanage were being taught to embroider, make dresses, cook, and keep house. The discipline and spirit were splendid, and a small scarf I bought carries happy memories.

Past a spot where guerrillas had held up

a bus two days before, we rode down to see an experiment station where cattle herds are being improved through artificial insemination and swamplands reclaimed by draining.

The women were about to lunch, but I asked one of them to go back to weeding mangel-wurzels long enough for a picture.

"Count on a *Geographic* man to pick a pretty one," quipped Adler, after an appraising look.

Steve and I visited the museum in Ali Pasha's mosque, watched hundreds of hungry folk stand in line for a gob of macaroni and cheese, and rowed to an out-of-this-world island where half a dozen medieval monasteries dream away the hours.



Young Athenians Know General Marshall as the Architect of Their Future

Most Greeks realize that their hope for a free nation depends on the European Recovery Program outlined by former Secretary Marshall in 1947. Thousands stop daily on Winston Churchill Street to scan a billboard showing how the Economic Cooperation Administration helps their country. About \$1.10 a year from each American provides \$23 in aid for every Greek.

In one of them, by the flickering light of an altar candle, a wrinkled caretaker revealed one saint after another, while, high in the dome, a shadowy Pantocrator looked down (page 742).

Ioánnina Mud Stops U. S. Mules

With a farewell roar to Ioánnina our plane was off across mountains where guerrillas still hold out and occasionally take pot shots at pilots. From the air one can see why a six-by-six truck is useless for mountain warfare.

Not a road, not a path, not a spring or shelter could we see. Texas and Missouri mules can slog through snow and gooey mud; but within a few yards of the road they might as well be wearing high heels. This is a land of goats and mountain men.

In such mountains mechanized troops are outmaneuvered, much as were the crusading knights beside Galilee, when Saladin's light horse ran circles about them, and the sun of the Holy Land roasted European chivalry in its own breastplates. Mountain warfare is easy—to the man who isn't there. Recent victories have been dearly bought.

Mention "Kastoria" in Manhattan's fur district, or "New York" in Kastoria, and you are sure of an audience. Many highly skilled fur craftsmen learned their cunning in that lake-girt city near Albania (page 736).

Lieutenant Merrill and I drove up with our chins between our knees, for the jeep floor was heavily sandbagged against land mines. The King and Queen and Prime Minister Sophoulis had been here before us.



A Many-paned Window on United States Life Is the American Library in Athens

Hundreds of Greeks, to whom America is a magic word, go each week to the United States Information Service Library to read American magazines and reference books. Murals picture Jefferson Memorial at Washington, D. C., and other American scenes. Prize-winning photographs line the walls. A Greek Orthodox abbot consults assistant librarian Alice Crowley (page 714).

Mr. Vasilios Mellides, their host and ours, commutes between Kastoria and New York.

In a fine old house, its sagging floors and landscape-painted walls a relic of Turkish days, we saw how tiny scraps of fur, rejected by Manhattan's well-paid experts, are coaxed together into lustrous sheets, to be fashioned into a woman's coat.

The pieces of which it is made may have come from widely scattered flocks in Afghanistan or Persia (Iran). They may have crossed back and forth between Kastoria and Fifth Avenue or Michigan Boulevard. But a rich lining hides the evidences of toil and skill, and the surface seems smoother and better matched than if made of whole skins.

The little girl who modeled for me caressed the rich mosaic of worthless scraps.

Perspiring profusely, I climbed into a plane to Athens. While shivering in my trench coat, high above the clouds, I decided to go to bed. But Laird Archer, Director of the Near East Foundation in Greece, invited me out.

Thus, quite by chance, I met Queen Frederika, German-born darling of wounded soldiers and little mother of thousands of orphaned children. Some of the children don't know whether they are orphans or not. Some do, all too well, for they were there when death struck.

While Mr. Archer paid a name-day call on Princess Helen, aunt of King Paul and mother of the Duchess of Kent, I waited outside, feeling that sports coat and slacks were unsuitable. But his forthright hostess insisted that I "stop being silly and come in."

Old friends who had helped me photograph the Delphic Festival in 1930* at once made me feel at home. Then I was escorted to a chair in the garden beside the glamorous and dynamic Queen of the Hellenes.

Plebeian Pop Licks Royal Sherbet

Her Majesty was telling of a school in Léros in the Dodecanese† where young bandits are trained for a better life and where the newly freed islanders entrusted the Greek flag to these young men.

A guest had left his delicate crystal glass of sherbet on a stone bench and a pup was licking up the royal refreshments. Queen Frederika's dark eyes twinkled at this mischief, but it failed to interrupt her discourse.

Then cordially the Queen turned to me.

"I hope you will visit some of my camps," said this beloved mother, who has added so many foster children to her own (page 712).

But I have, Your Majesty, at Ioannina. We visited the dormitory at the slumber hour. When I tried to photograph one bright girl framed in the end of her double-decked bunk I found nearly a dozen happy faces in my fader (page 744). Incidentally, you are ministering to my happiness also."

"How?" she asked.

"I am fond of music, operetta, theater, and cinema. But when I first returned to Athens and thought how cruelly Greece had suffered, it seemed selfish for me to enjoy such pleasures in a land where there is so much want. Then I found out what the Queen's Fund tax ticket is and that I had the privilege of adding my two cents' worth to your charity. With that small ticket, which added so little to the cost, I felt that I had an invisible little guest beside me. After that, even a twice-seen movie seemed good."

To King Paul I risked an informal approach:

"You have had my sympathy, Your Majesty, ever since I saw you peered in the sun outside the new Fisheries Laboratory during an interminable speech of welcome tendered you. As it dragged on, I asked a friend if I would like to be seen. He thought so."

The tall, quiet ruler offered me a sherbet, introduced me to his friends, and laughed. "It's nice to have one's problems understood," he said.

I came away admiring the simplicity and democracy of these hard-worked rulers, on whose common sense so much depends.

Some schoolboy chestnuts, like Thermopylae, resist time's changes. Railroad builders, tunneling through the hills and tossing the 1,100-foot Brálios bridge across a wild gorge,

long since made a museum piece out of Leonidas's once-significant pass. As the Paris-Athens sleepers of the Simplon Orient Express crawled toward Attica, 4,500-foot Mount Kalikthoman hid Thermopylae from the passengers.

During World War II, British and German experts in dynamite and destruction, by wrecking the modern substitutes for Thermopylae's bottleneck, turned back the pages of history to where it was when Xerxes' Persians forced the pass more than 2,400 years ago.

My friend Al Cook had spent months, dodging land mines and toiling in heat and snow, to record the proud achievements of our Corps of Engineers. Besides rebuilding Brálios bridge and tunnels, they built 900 miles of new road, restored the ports of Piræus (opposite page), Volos, and Salonika, and re-opened the Corinth Canal (page 734). Thanks to them, the caissons are again rolling along in Greece.

Mr. Cook generously gave me some of his photographs of the reopening of Brálios bridge on April 14 of this year (page 715). Soon after that, a special train, cautiously pushing a string of flats (in case some saboteur got careless with his land mines), crossed the rebuilt structure. From where FCA man Walter E. Packard and I watched it, the train was a toy and the mighty new bridge a spiderweb, almost lost in an immensity of mountain and river.

Vacant Land a Challenge

Mr. Packard, a drainage and irrigation expert, was inducing rice to grow on alkali soil where nothing grew before.

The Sperkhios River, now a destructive torrent, now a sun-leached river bed, has eroded fields, spread miasmatic swamps, and built up three miles of alkali flats between Thermopylae and the gulf. So much vacant land, in a country which must import food or starve, is a challenge to an agriculturist (page 737).

Ultimately, the wily Sperkhios may be dammed. Already, drainage ditches and irrigation canals are putting the water in its proper place. But we came to see a 100-acre experiment on fields flooded by motor-driven pumps.

The tender rice, planted only a month be-

* See "Festival Days on the Slopes of Mount Parosus," 14 vols. in error by Maynard Owen Wister in *National Geographic Magazine*, December, 1930, and "Sardinia and Italy's Aeolian Islands" by Maynard Owen Wister in *National Geographic Magazine*, November, 1931.



Water! The Magic Word Lures Hundreds as an Irrigation System Opens Near Thika

The water here is part of a \$125,000 project irrigating 1,000 acres of land near the Athys, largest river in the Delapontian. A phalanx for whom it was named was the first to come here to pursue the fountain nymph Arethusa under the mountain.

in the morning, the assemblage in the first early morning hours. The water is a small plane. Mr. Packard reports that the crop looks so good that the farmers expect all bushels to the

Greece May Grow Own Rice

It is not in Greece, but in the north of the country, and Greece may grow all the rice it needs. The rice is a new variety, and is a good one. It is a good one, and is a good one. It is a good one, and is a good one.

It is a good one, and is a good one. It is a good one, and is a good one. It is a good one, and is a good one.

It is a good one, and is a good one. It is a good one, and is a good one. It is a good one, and is a good one.

It is a good one, and is a good one. It is a good one, and is a good one. It is a good one, and is a good one.

It is a good one, and is a good one. It is a good one, and is a good one. It is a good one, and is a good one.

Every perplexing problem is complicated by another. How to grow rice on alkali land is one; how to sell it in competition with gift rice from abroad is another. Shut off the imports? Children starve. Force the farmer to sell at less than cost? A nation starves.

Before the war, the average annual income per inhabitant in Greece was \$80. In some ECA countries the victorious enemy saved all factories possible to work for him. In Greece, friend and foe outdid each other in wrecking everything in sight.

The once-profitable Greek merchant marine was decimated. Income from tourists and remittances from relatives in America are reduced. There is little, if anything, that Greece can do better than any other nation. But the matchless treasures of antiquity are important assets to attract tourist dollars.

Ancient Treasures to Lure Dollars

The ECA is paying refugee laborers to restore the Stoa of Attalus, which once looked down on the Panathenaic procession, in which sturdy athletes and pretty maidens, pictured to this day in priceless marches, annually escorted a sacred robe to Athens. This ancient covered portico will serve as a show place for treasures found while excavating the Athenian Agora, between the Acropolis and Hephaestemon. That makes the American taxpayer a partner of John D. Rockefeller, Jr., who long financed the Agora "digs" of the American School of Classical Studies at Athens.

In the nearly Painted Stoa, another ancient portico whose habitués were the Stoics, slavery was condemned 2,000 years before Abraham Lincoln. To this meeting place came philosophers from a world awakened by the tramp of Alexander's troops to hear the teachings of Zeno, founder of the Stoic school.

Farther away is the best preserved of all Greek temples. Its columns still stand. Its name has been lost.

To bus and train passengers it is known as the Thesalon. Scholars call it the Hephaestemon, after the lame blacksmith whose followers have their forges close by. Even in Greece, Hephaestus, handy man of the gods, goes by his Latin name as Tinkerman of automobile tires. But Mr. Homer A. Thompson, distinguished archeologist, has given added proof that this temple also honored Hercules or Heracles.

Mr. Thompson describes how a sculptured torso, two female figures, a headless goddess, one slender hoof of a horse, and some obscure depressions and spike holes were clues to the theme of the ruined pediment.

No one, after hearing him, doubts that the scene was that of the ceremonies honoring Hercules for bringing back the golden apples of the Hesperides. Vase paintings indicate that, in this delightful labor, at least, the ancient strong man used charm rather than a club.

ECA Wives Turn Archeologists

On June 26, 1949, ECA wives hit a minor archeological jack pot in the digs. Alerted by two of them, I took my camera to their impromptu date with the ninth century, B. C., set for 4 p. m.

A 32-inch burial jar had been uncovered in the Agora and the top dusted off. Its contents, if any, were untouched when we arrived.

Archeologist Margaret Freshy, in a wide straw hat and slacks, warned of possible disappointment.

"When an archeologist calls his shot, he often misses."

Mrs. Evelyn Smithson, Bryn Mawr graduate and a freshman at field work, presided.

Inside a circle of shovels, rakes, and wedges, Greek diggers slowly removed the 2,800-year-old debris. After two graceful vases had been removed, the jar was detached from its bed, swaddled in burlap, and lugged to the Agora museum courtyard.

In the jar, under the cranium of a ten-month-old child, were half a dozen delicate vases, all unbroken and each distinctive—a very successful find.

In his museum workshop, anthropologist J. Lawrence Angel was engaged in sticking together prehistoric skulls. His researches indicate that if the ancient and modern Greeks are part of the same race, they could be, as far as skulls go.

One ancient skull was in such perfect shape that the explanation seemed incredible.

"Must have been thrown down a well. Water doesn't rot a skull. It is alternate wetting and drying that turns poor Yrick to dust."

Hamer adds evidence that characteristics as well as skull structure, persist.

"We lost our bearings, as Zeus, I suppose, intended we should," said the dauntless Odysseus, abiding to Akimachos. In Polyphemus's cave his men were "paralyzed by a sense of utter helplessness." Fatalism and a sense of helplessness are still problems.

A 1,000-mile Jeep Jounce

Merrill, who had a leave coming, has relatives in the Peloponnese. I could get a jeep. He would act as mentor. So we had a wonderful 1,000-mile jeep jounce through territory



Flowers Could be of Agave Get a Dole of Hot-Sweetened Milk

[illegible]
$$\sqrt{\frac{1}{n} \sum_{i=1}^n (w_i - \bar{w})^2} = \sqrt{\frac{1}{n} \sum_{i=1}^n w_i^2 - \bar{w}^2} = \sqrt{\frac{1}{n} \sum_{i=1}^n w_i^2 - \left(\frac{1}{n} \sum_{i=1}^n w_i\right)^2}.$$

At 2:30 on a cold, parade Saronic Gulf day, the Kostas, a small, crossed the Corinth Canal into the Bay of Piræus, and landed at Mycenae's Lion Gate.

[illegible]

...and had a wife.

That morning I take him everywhere and show him the hills. He says, 'The hills of Agamemnon and the hills of Iphigeneia.' Everywhere he says, 'Lovely, lovely, lovely.' He very polite man. But pretty soon his five hounds speak different. They say, 'Hunt, hunt, hunt.' And way of saying that was a complaint.

Source: N&A in "Fishes"

After visiting the vast stained galleries of T'ien Anmen Hall and the well-preserved palace of P'eking we went at Nanjing. Nanjing is populated and held by many Chinese and some foreign propaganda. Here I was told to go and look at the Lighthouse, to use an alphabet, and to show

A fine new road hairpins over the hills between Argolis and Arcadia. Near Akhladhókambos we passed a series of rock crushers, screens, rock heater, and asphalt mixer.

Here busy road builders are helping motor traffic to triumph over the very hills which yield the stone.

Some new roads were built when war demanded haste, and its consequent waste.

"You might as well toss blacktop into the fields as to try to build a road in a driving rain, but that's what we did," one frank engineer told me. The new road near Akhladhókambos is so good that truck drivers can't wait for it to rain.

Batteries of crushers "made little ones out of big ones." Bulldozers shoved the graded stone toward the chutes. High-pressure flames dried and heated the stone, which was then mixed with asphalt and emptied into trucks. Two loads a minute set out for the massive machine which rolls slowly ahead over a bad road and leaves a good road behind it.

At the pleasant little city of Tripolis, Brig. Gen. Thomas Pentzopoulos, who had freed his area of guerrillas, arranged for a scout car to accompany our jeep through Taygetos. Across this nearly 3,000-foot barrier the Spartan Spartans, 2,500 years ago, enslaved rich Messenia. On the mountain slopes defective horses were left to die.

Over the makeshift but adequate road, which the Army pushed through while fighting off guerrillas, a constant stream of heavy trucks was using this unfinished short cut between Messenia and Laconia.

Bashful Bandit Surrenders

Near the top of the pass we saw the surrender of a "bandit"—a fearless but bashful lad with a most antiquated machine gun.

His brother, having those tangible embodiments of all Greek aliens, "the politicians," had "gone Communist." When something happened to him, his inoffensive brother surrendered, perhaps out of loneliness. As he was interrogated by his captors, there was no ill will on either side.

When Spartan warriors conquered the Messenian plain, Sparta became the most powerful city-state in Greece. Now American draglines are reclaiming worthless portions of once-rich Messenia.

We saw oxen dragging the rice fields in true Oriental style, and Kalamata's fruit and vegetable market (and vitamins).

As we approached Arfará, I asked my mentor if he had let his relatives know he was coming.

"If I had, they'd have killed the fat old cull," he replied, chuckling.

In a simple but most hospitable home my companion had a small youngster on his lap most of the time. Four delightful daughters, after helping prepare the feast, put on their prettiest dresses, gifts from America.

Anna, the oldest, is a dressmaker, and Io and Maria help. Panayiota prefers gardening. Such charm, in this dusty village, was like the flash of butterflies, but I slipped away to the village school, crowded and understaffed, where the village priest and schoolmaster expressed his thanks for milk from America.

Women and Donkeys Carry Water

Despite Arfará's position between two mountain streams, its water is brought in by donkeys or women. One Greek American said that he has to walk down to the river to wash his feet and when he gets back they're dirty again.

"Everybody goes to church," I reminded him. "Why don't you gather the men together some Sunday after service, go up one of the streams, sink a wine cask, get some pipe, and have yourselves a water system?"

"The politicians would not like it."

"Invite 'em up, have them inspect the wine cask, and push 'em in."

When I mentioned the matter to an ECA expert, he took down the name of Arfará and scribbled.

Maybe we can do something. If we start, your friend will help. But these people have had no real weapons—no real government. Cooperation is ECA's little name. Maybe running water *will* come to Arfará.

Our lunch was ample, delicious, and gay. Of Merrill's cousins I retain many pleasant memories and one poignant one.

Taking Merrill aside, our host pleaded, "See if my brother won't have one of my girls go to America."

I thought what a blessing such a neat little housekeeper, cook, and dressmaker could be to a tired American housewife. But the Greek quota of 310 annually is filed for year-to-come.

Back in Tripolis, after a dippy-doodle road, we were guests at an outdoor dinner given by General Pentzopoulos. A Gypsy singer had been asked to bring her guitar. As one dithyramb course followed another, her mortal melodies, now a moan, now a cry of defiance, colored our conversation.

The mild of Athens beside me was novelist, painter, classical dancer, and very good company. Across the table a bald general echoed each melody of the Gypsy guitar.



Dark-eyed Maids in Ancient Dress Roll Back the Years. Medieval Greece Stands Revealed
 From the photograph of the woman in the foreground, the artist has created a scene of life in the past. War in the Balkans, the great plague, and the fall of the Byzantine Empire have left the country a shadow of its former self. The woman in the foreground is a typical Greek woman of the present day. The child in her arms is a typical Greek child of the present day. The scene is a typical Greek scene of the present day.



Release Children, ... Beneath the ... Parthenon, ... Her ...

...

George Washington and the Battle of the Clouds

George Washington and the Battle of the Clouds. The Battle of the Clouds was a significant event in the American Revolutionary War. It took place on September 26, 1776, in the state of New York. The British forces, led by General Sir Henry Clinton, defeated the Continental Army, which was led by General George Washington. This battle was a turning point in the war, as it allowed the British to move on to the city of New York City.



Skin and Bones Dress of the Hillemees of Lapland, Lapland

For the first time
the people of
Lapland have been
seen in their
own country. The
people of Lapland
have been seen in
their own country.

The people of Lapland
have been seen in
their own country. The
people of Lapland
have been seen in
their own country.

The people of Lapland
have been seen in
their own country. The
people of Lapland
have been seen in
their own country.

The people of Lapland
have been seen in
their own country. The
people of Lapland
have been seen in
their own country.

The people of Lapland
have been seen in
their own country. The
people of Lapland
have been seen in
their own country.

The people of Lapland
have been seen in
their own country. The
people of Lapland
have been seen in
their own country.





(1) *For the purpose of this section, the term "person" shall mean any individual, partnership, corporation, or other legal entity, and shall include any person who is a member of the family of the person who is the subject of the investigation.*

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and the role of the auditor in ensuring the integrity of the financial statements.

2. The second part of the document discusses the importance of maintaining accurate records of all transactions and the role of the auditor in ensuring the integrity of the financial statements.

3. The third part of the document discusses the importance of maintaining accurate records of all transactions and the role of the auditor in ensuring the integrity of the financial statements.

4. The fourth part of the document discusses the importance of maintaining accurate records of all transactions and the role of the auditor in ensuring the integrity of the financial statements.

5. The fifth part of the document discusses the importance of maintaining accurate records of all transactions and the role of the auditor in ensuring the integrity of the financial statements.

6. The sixth part of the document discusses the importance of maintaining accurate records of all transactions and the role of the auditor in ensuring the integrity of the financial statements.

7. The seventh part of the document discusses the importance of maintaining accurate records of all transactions and the role of the auditor in ensuring the integrity of the financial statements.

8. The eighth part of the document discusses the importance of maintaining accurate records of all transactions and the role of the auditor in ensuring the integrity of the financial statements.

9. The ninth part of the document discusses the importance of maintaining accurate records of all transactions and the role of the auditor in ensuring the integrity of the financial statements.

10. The tenth part of the document discusses the importance of maintaining accurate records of all transactions and the role of the auditor in ensuring the integrity of the financial statements.



Chicago's Lakeview Hotel on the Lake. American Engineers have designed and built this hotel.

The hotel is a fine example of the work of the American Engineers in Chicago. It is a large, modern building with a red roof and a light-colored facade. The hotel is situated on a hillside overlooking the lake. The surrounding area is lush with green trees and vegetation. In the foreground, there is a paved area with some small structures and a signpost. The background shows a wide expanse of water under a clear sky.

dielectric constant, ϵ , and the refractive index, n , are related by the equation $n^2 = \epsilon$, and the refractive index, n , is related to the speed of light, c , by the equation $n = c/v$, where v is the speed of light in the medium.

[illegible]



No. 1. The woman in the red dress is the same woman who was in the photograph on the opposite page.

The woman in the red dress is the same woman who was in the photograph on the opposite page.

Figure 1. Aerial view of the study area, showing the location of the study area within the larger context of the region. The study area is located in the central part of the region, surrounded by agricultural land and forests. The inset map shows the location of the study area within the larger context of the region.





the $\mathcal{A}[\mathcal{A}_0, \mathcal{A}_1]$ and $\mathcal{A}[\mathcal{A}_0, \mathcal{A}_2]$ are the \mathcal{A} -modules

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It includes a detailed description of the experimental setup and the procedures followed during the study.

3. The third part of the document presents the results of the study, showing the data collected and the analysis performed. It includes tables and graphs to illustrate the findings.

4. The fourth part of the document discusses the implications of the study and the conclusions drawn from the results. It highlights the significance of the findings and their potential applications in the field.

5. The fifth part of the document provides a summary of the key points discussed throughout the document. It reiterates the main findings and the conclusions drawn from the study.



Government, which serves to keep the sun actually shines with refugees. Family Halls have been established for the purpose of providing a place of refuge for the refugees. The building is a large, multi-story structure with a central dome and minaret. It is surrounded by a high wall and a large, open courtyard. In the foreground, there are several trees and a paved area. The sky is overcast.



A Wrinkled Sexton Lights a Medley of Monastery: Byzantine Saints Spring Out of Darkness
The photograph shows a priest in a purple cassock lighting a large, ornate, golden candelabrum. The candelabrum is adorned with red and white flowers. The background shows the interior of a church with blue and gold frescoes on the walls and ceiling. The scene is dimly lit, with the primary light source being the candles on the candelabrum.

Motoring to Kalávrita, we came to Káto Klitoria, 85 percent destroyed. But the town ignores its plight. Backgammon players offered us coffee as if they were in a swank club. Kids came back from school past a headless Roman statue, no more ruined than the town.

In the Monastery of Áyios Lávtros I found my 20-year-old signature in the guest book and again photographed the religious banner which Germanos, Archbishop of Patras, raised in revolt against the Turks on March 25, 1821.

I had remembered the City of Beautiful Fountains (Kalí Vrita) as a place of leisure, the sound of church bells, and peace. But German and guerrilla changed all that.

A small white marker in a hillside meadow shows where the Germans machine-gunned approximately 1,100 Kalávritans on December 13, 1943. Later, guerrillas burned the town.*

Part of my bedroom wall was gone. My bed was hard. The only wash place was the drippy faucet of the fire-wrecked kitchen. Asking myself why a lover of comfort persists in being a wanderer over the face of the earth, I slept better than in Athens.

We jeeped down to Patras (Patrai) along the oleander-tinted coast of north Peloponnese, and back to Old Corinth's ruins, which St. Paul knew, and to Athens, where he preached.

Harnessing Edhessa's Water

To see one of the engineering projects designed to spread light, power, and irrigation, and save coal, I flew north to Salonika, city of the Thessalonians, and motored up to the waterfalls of Edhessa, once the capital for Philip of Macedonia.

Here, in a magnificent amphitheater, an assassin's dagger, deadlier than Demosthenes' philippics, laid Alexander's father low. But of more present importance is the fact that Edhessa is what its Slavic name suggests: Vienna, Place of Water.

The city peeks over the edge of a 250-foot cliff, overlooking a wide and fruitful valley. From the sharp edge of town, sparkling waterfalls seem like wind-blown lace, their beauty soon to be sacrificed to hydroelectric power.

At Ágras, higher up the valley, Ebasco Services, Inc., engineers are cutting a cove to see how much rock work will be involved in sinking a 1,200-foot tunnel and building a powerhouse deep down in the earth. From Ágras the water will flow under Edhessa and be distributed through irrigation ditches in the valley.

As the hard-boiled drillers worked, plain-faced youngsters came to watch. Actually soft-hearted, the men asked why they could

not set up a feeding station under the supervision of the United Nations International Children's Emergency Fund. With that much interest shown, it was a case of no sooner said than done. Now along with telling how many feet of travertine core the day's work has produced, the men boast of how much brighter the kids' eyes are (pages 723 and 735).

In Macedonia "Farming Country"

Unlike much of Greece, Macedonia is farming country.† In a Salonika suburb Charlie House is carrying on the world-famous American Farm School started by his father. West of the city, the Foundation Company, of New York, using giant American machines transformed mosquito swamps into prosperous farms. During three months in Greece I did not hear a single mosquito.

I wanted to see Slavic-speaking Greeks re-occupy their villages near the Yugoslav frontier. But another push was on. Military trucks crowded the roads. So we sped back over a splendidly repaved portion of the Via Egnatia, ancient highway from Durres to Byzantium.

Scattered stones around "Alexander's Fountain" mark the site of Pella.

Seeking new worlds to conquer and divinity in Egypt, only to find premature death by the waters of Babylon, Alexander turned his back on Pella, and it looks as if here Euripides wrote some of his famous plays.

In the plain near vanished Pella threshing crews were at work. Power stackers smudged the blue sky with golden chuff while the grain filled fat homespun sacks. Since refugees from Anatolia arrived in 1923 and swamps were drained, this part of Macedonia has become a bread basket.

With Charles S. Johnson, one of the leading experts with the United Nations, I visited several villages where children had not yet experienced the benefits of his work. Our lunch in a provincial "country store," consisted of cucumbers, good peasant bread, and six fresh, tasty eggs apiece.

The Hospitality of the Poor

To eat so bountifully in so poor a village seemed sinful. But one cannot refuse the hospitality of the poor.

Our visit was not entirely a drain on the country, for my companion arranged for feeding committees and promised some sugar to

* See "Evros, The a House of Greece" by F. G. Rehnert, NATIONAL GEOGRAPHIC MAGAZINE, December, 1947.

† See "History's Greatest Trick" by Melville Charter, NATIONAL GEOGRAPHIC MAGAZINE, November, 1945.



The Photographer Aimed at One Model. Up Popped Ten Toned Heads!

THE WHITE HOUSE PHOTOGRAPHY UNIT, in its quest for a new model to represent the United States in the 1990s, was looking for a young woman who could represent the diversity of the American people. The search was on for a young woman who could represent the diversity of the American people.

After a search for a young woman who could represent the diversity of the American people, the search was on for a young woman who could represent the diversity of the American people.

The search was on for a young woman who could represent the diversity of the American people. The search was on for a young woman who could represent the diversity of the American people.

The search was on for a young woman who could represent the diversity of the American people. The search was on for a young woman who could represent the diversity of the American people.

The search was on for a young woman who could represent the diversity of the American people. The search was on for a young woman who could represent the diversity of the American people.

The search was on for a young woman who could represent the diversity of the American people. The search was on for a young woman who could represent the diversity of the American people.

Tenfold FCA Men from American Colleges

For a long time, college graduate Alexander Michaluk, 22, would not have made it. But now, thanks to a Government contract, he is getting a new life. The government, American schools such as Michigan State, and the college and University College have been working to get a new life for FCA's doing. The Robert College, which is an American school, is now working to get a new life for FCA's doing. The Robert College, which is an American school, is now working to get a new life for FCA's doing.

The search was on for a young woman who could represent the diversity of the American people. The search was on for a young woman who could represent the diversity of the American people.

The search was on for a young woman who could represent the diversity of the American people. The search was on for a young woman who could represent the diversity of the American people.

The search was on for a young woman who could represent the diversity of the American people. The search was on for a young woman who could represent the diversity of the American people.

The search was on for a young woman who could represent the diversity of the American people. The search was on for a young woman who could represent the diversity of the American people.

The search was on for a young woman who could represent the diversity of the American people. The search was on for a young woman who could represent the diversity of the American people.

Exploring Stone Age Arnhem Land

By CHARLES P. MOUNTFORD

Editor of the *National Geographic Magazine*, Smithsonian Institution, Department of Zoology and Botany
in cooperation with the Australian Government

Illustrations by Norman G. Hargrave, and captions by Howard Harker

A STRANGE world below our plane unfolded like an ancient chart on weathered parchment. Scattered rains and mist-blurred brown watercourses, swathed foggy green plains, and beveled gray edges of sharp escarpments. It seemed almost unfair to fly with such ease over country where so few white men dared to venture on foot. Hundreds of feet above Arnhem Land one could feel its inhospitable vastness and infinite emptiness.

Scarcely scratched by European exploration, Arnhem Land, an Aboriginal reserve about the size of Maine, lies in northern Australia (map, pages 748-9). Except for the ever-spreading influence of widely spaced Christian missions, it remains blackfellows' country with a Stone Age look.

Here nomadic natives follow their age-old customs. In small groups they hunt with spears over the black-soil flats, among the motionless eucalyptus forests, and in steep-walled gorges of the stony plateau. In primitive dugout canoes they fish off the coast, gather food in the swamps, or along the many tidal rivers.

Often the aborigines hold an all night *corroboree* (tribal song and dance), their painted bodies flashing grotesquely in the firelight. And sometimes their spears fly in a fight to the death over women.

In early April, 1948, two Catalina flying boats moved the majority of our expedition staff from Darwin to Groote Eylandt in the wide Gulf of Carpentaria. A supply ship followed with three more members, the bulk of equipment, and food supplies.*

Aborigines Studied in Natural Environment

Ten Australians and five Americans made ours the largest purely scientific expedition ever to take the field in Australia.

Original plans called for a much smaller group. However, through the personal attention of the Commonwealth Minister for Immigration and Information the party expanded. The Honorable Arthur A. Calwell was anxious for further collaboration between the scientists of his country and the visiting ones.

As the story unfolds, you will meet the members; so we won't herd them all on the stage at once (page 760). The National Geo-

graphic Society and the Smithsonian Institution (both of Washington, D. C.) and the Commonwealth Government of Australia sponsored the international expedition, hand-picking their respective representatives for the comprehensive eight-month survey.

Main objectives were to observe the everyday life of Arnhem Land aborigines; try to determine where they originally came from; learn how they coped with their own environment; collect specimens of their material culture, such as spears, throwing sticks, nuts, and baskets. No less important was the task of recording mammals, fish, birds, and plants in the region.

The scientific departments helped one another in the field. Naturalists supplied anthropologists with information on the natives' environment, while the nutritionist judged how well aborigines lived off the country. No other expedition in Australia has embraced so many interlocking branches of anthropology, natural history, and medical research.

Three Main Bases

We divided our time in the field fairly among three main bases.

Our first camp, at Umbakumba in northern Gire to Eylant, offered an island environment with a generally arid, sandy hinterland.

Secondly, Yirrkala, in the northeast corner of Arnhem Land, let us study life on the sea-coast as well as among fresh-water billabongs (lagoons) and rich eucalyptus forests.

Uppell, our final site, was some 42 miles from the sea; here the great stony plates of Arnhem Land rose abruptly from flood plains where extensive lagoons and marshlands teemed with fish and willow and coccolites lived in the writhing tidal rivers.

Although among the first areas of Australia discovered, Arnhem Land remains the least-known corner of this island-continent.

As early as 1606 a Dutch East India Company vessel penetrated 300 miles into the huge Gulf of Carpentaria to Cape Keerweer.

* See "In the Narrows, *Geography Magazine*, Cruise to Stone Age Arnhem Land," by Howard Harker, September, 1949; "An Arnhem Land Aborigine," by Donald F. Thompson, March, 1948, and "Earth's Most Primitive People," by Charles P. Mountford, January, 1946.



A Bearded Ornithologist, Banning M. Joughin, Works on a Crested Pigeon.

Banning M. Joughin, a student in the Smithsonian Institution, is the author of the article on the Crested Pigeon. He is a young man with a beard and a hat, and is shown in the photograph working on a specimen. The article is a detailed study of the Crested Pigeon, and is one of the many contributions to the knowledge of the natural world that the Smithsonian Institution has made.

Some time ago, two men, Dyer and Joughin, were seen in the same place. They were the same men who were seen in the same place. They were the same men who were seen in the same place.

The first man, Dyer, was seen in the same place. He was seen in the same place. He was seen in the same place. He was seen in the same place. He was seen in the same place.

At the same time, the second man, Joughin, was seen in the same place. He was seen in the same place. He was seen in the same place. He was seen in the same place. He was seen in the same place.

Then, the third man, Joughin, was seen in the same place. He was seen in the same place. He was seen in the same place. He was seen in the same place. He was seen in the same place.

So, the third man, Joughin, was seen in the same place.

Then, the fourth man, Joughin, was seen in the same place.

Today, the man, Joughin, was seen in the same place. He was seen in the same place. He was seen in the same place. He was seen in the same place. He was seen in the same place.

Living from Day to Day

With a certain amount of money, one can live from day to day. One can live from day to day. One can live from day to day. One can live from day to day. One can live from day to day.

And, the man, Joughin, was seen in the same place. He was seen in the same place. He was seen in the same place. He was seen in the same place. He was seen in the same place.



THE 1872 JOHNSON'S BLEND, and His Assistant Weigh a Potatoe Basket

Dr. Henry B. Glickman, Director of the U.S. Bureau of Biotechnology, has been the American representative to the Commission on the Status of Women in the Camp David summit talks. He was the only American representative to the Commission, which was held in the Camp David summit talks. He was the only American representative to the Commission, which was held in the Camp David summit talks. He was the only American representative to the Commission, which was held in the Camp David summit talks.

A t a f u r a

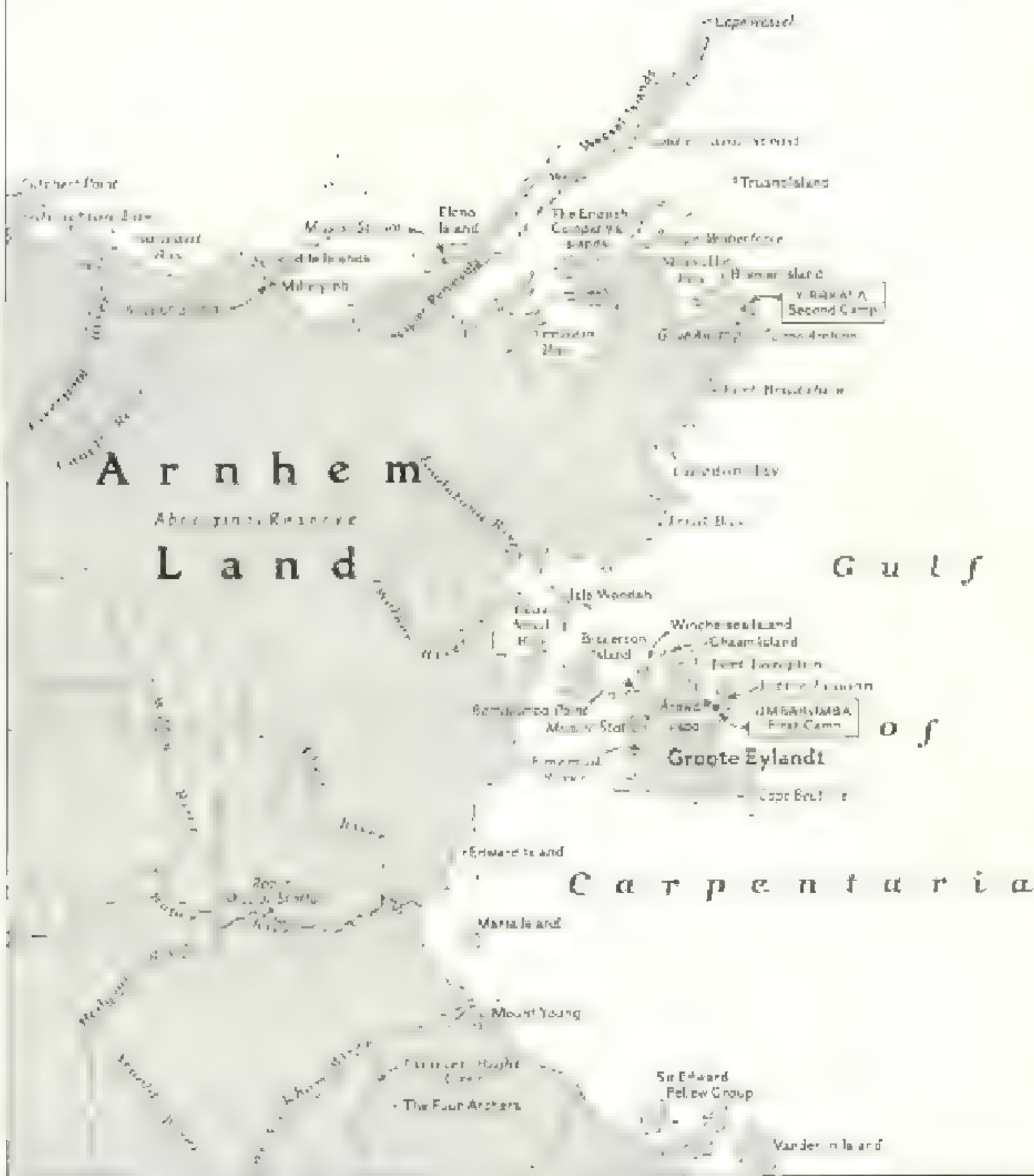


Arnhem Land Is Set Aside As Indian Reservation for an Aboriginal Sanctuary

major decisions. Women generally stay in the background. In their early years children appear hopelessly spoiled through parental indulgence, but with time they learn perforce to conform to their ancient tribal way.

At Umbakumba, on Groote Eylandt, aborigines helped us pitch our tents on a sand hill beside the native settlement run by Mr.

and Mrs. Fred Gray. Gray generously assigned us a dozen of his best blackfellows to act as guides, interpreters, photographers, and artists. Mrs. Gray through her home and the school she taught enabled us to make friends with some 50 boys and girls as well as with the exceedingly shy womenfolk (pages 753, 754, and 757).



The Gulf of Carpentaria, showing the location of the first and second camps.

Few White Australians Have Ever Seen the Rugged Face of Their Northern Wilderness

Because the expedition's radio failed, we could not learn the position of the supply ship *Phoenix* en route from Darwin with most of our equipment and much-needed food. Only the mission station, some 40 miles away by trail, kept Groote Eylandt in radio communication with the outside world.

As our food diminished, I planned to walk

on my mission, ascertain the *Phoenix's* whereabouts, and then necessary arrange for emergency stores to be flown in. This was done, and in due course supplies arrived.

During our first seven weeks in the field three of the American staff were not with us: Dr. David H. Johnson and Herbert G. Doleman, both of the Smithsonian, and Howell

Walker of the National Geographic Society had decided to travel aboard the *Phoenix*. At ports of call Johnson and Deignall sought mammals and birds, respectively, and Walker local color.

With us at Umhakumbwa were the other two Americans: deputy leader Frank M. Setzler, Head Curator of Anthropology of the Smithsonian Institution, and Dr. Robert Miller, anthropologist of the Smithsonian.

Setzler recorded more than 100 palm- and fingerprints, took hair samples, and made tests of inheritance of taste sensitivity of aborigines in the vicinity. These dermatoglyphic studies are the first to be made of natives in the area; they supplemented data previously gathered on aboriginal physical characteristics.

Frank also completed numerous facial and hand casts of aborigines (page 761). These casts were to be used for the modeling of life-sized groups in the U. S. National Museum at Washington, D. C.

"Leaf" Turns Into Fish

Miller collected fish by hook, seine, shotgun, night light, and the use of powdered derris root (page 769). Two species particularly interested him: a needlefish, locally known as "long tom," and the mudskipper.

The long tom is a surface feeder, related to the flying fishes. When chased by other sea creatures it rises above the water. With rapid vibrations of its tail and an occasional skip, it can scoot across the surface for 100 yards, and remain more or less airborne as long as 15 seconds.

Day and night Miller observed habits of mudskippers. These fish of the goby family are at home along the mud banks of tidal creeks and mangrove swamps. Pulling up their cheeks to provide a supply of oxygen, they can stay out in the air for 15 minutes or more at a time. Their eyes, set on stalks, move independently of each other—an exceptional feature among fish.

Once while studying the mudskippers, Bob noticed what looked like a brown leaf floating in the water. Although there was no breeze or current, this "leaf" obviously moved; yet it in no way resembled a fish. It took all Miller's speed and ingenuity to capture the "leaf fish."

The Australian contingent, too, had gone to work in various fields. One of our two female members, Margaret McArthur, went with aboriginal women into the jungle or along the beaches on food-gathering expeditions. When not occupied with secretarial duties, my wife sometimes accompanied the young nutritionist.

Margaret recorded crude native methods

of using a stick to dig wild yams and other root vegetables; watched their preparation in coals or ashes of smoldering fires; saw girls submerge in swamps to come up with edible lily bulbs; or noted how mothers and children found crabs and oysters at rocky points on the coast. In every instance Margaret weighed the food, putting aside vegetable or fruit specimens to be dried and shipped south for analysis (page 766).

Dr. Brian Billington and bacteriologist Kelvin Hedges set up their laboratory in an abandoned shed behind the Girays' homestead. Here they examined dozens of natives to ascertain general physical conditions. Naturally shy of such things as hypodermics or blood tests, the aborigines, especially the women, presented problems. Brian always tested the older men first so that they could judge whether or not the white medicines practiced evil magic. Then patients moved more smoothly through the dispensary (pages 747 and 747).

We saw almost nothing of botanist Ray Specht during the daytime. With knapsack and ax he disappeared into the bush soon after breakfast; sometimes turned up for lunch; usually sat up late at night pressing plant specimens.

John Bray and Keith Cochran, cook and quartermaster, respectively, watched short rations get shorter, prayed for the *Phoenix* to arrive, and tried to make bully beef taste unlike bully beef. As honorary entomologist, John collected insects between meals (opposite page). Keith gathered shells along the beaches. Because their principal duties kept them close to the kitchen most of the time, both enlisted the aid of native women and children for field work.

Natives Form "Cockroach Committee"

The entomologist's assistants formed what we called the "cockroach committee"; as payment, adults received tobacco, children hard candies.

Keith's helpers carried no sledge, just this to hold what they gathered; they were similarly rewarded.

Anthropologist Fred McCarthy of Sydney's Australian Museum studied the material culture of Great Eyland's aborigines. He watched native craftsmen fashion spears, throwing sticks, boomerangs, baskets, and ceremonial objects (page 773). Spending much time among native families, Fred also inquired into tribal and social organizations, learning who married whom, etc.

As ethnologist, my special interest was in primitive art. Through the kind cooperation

At the same time were possible when Margaret took the stone from the ground, weighed it, and found it to be the same as the one which she had seen in the other place.

For the first time I had seen a stone which was not a piece of the same kind of stone as the one which I had seen in the other place. It was a piece of the same kind of stone as the one which I had seen in the other place.

The same kind of stone as the one which I had seen in the other place. It was a piece of the same kind of stone as the one which I had seen in the other place.

Same Old Trouble—Women

Among the drawings I had seen at Perth, I had seen a drawing of a woman in a dress. I had seen a drawing of a woman in a dress.

Two of the drawings I had seen at Perth, I had seen a drawing of a woman in a dress. I had seen a drawing of a woman in a dress.

When I saw the drawing of a woman in a dress, I had seen a drawing of a woman in a dress.

When I saw the drawing of a woman in a dress, I had seen a drawing of a woman in a dress.

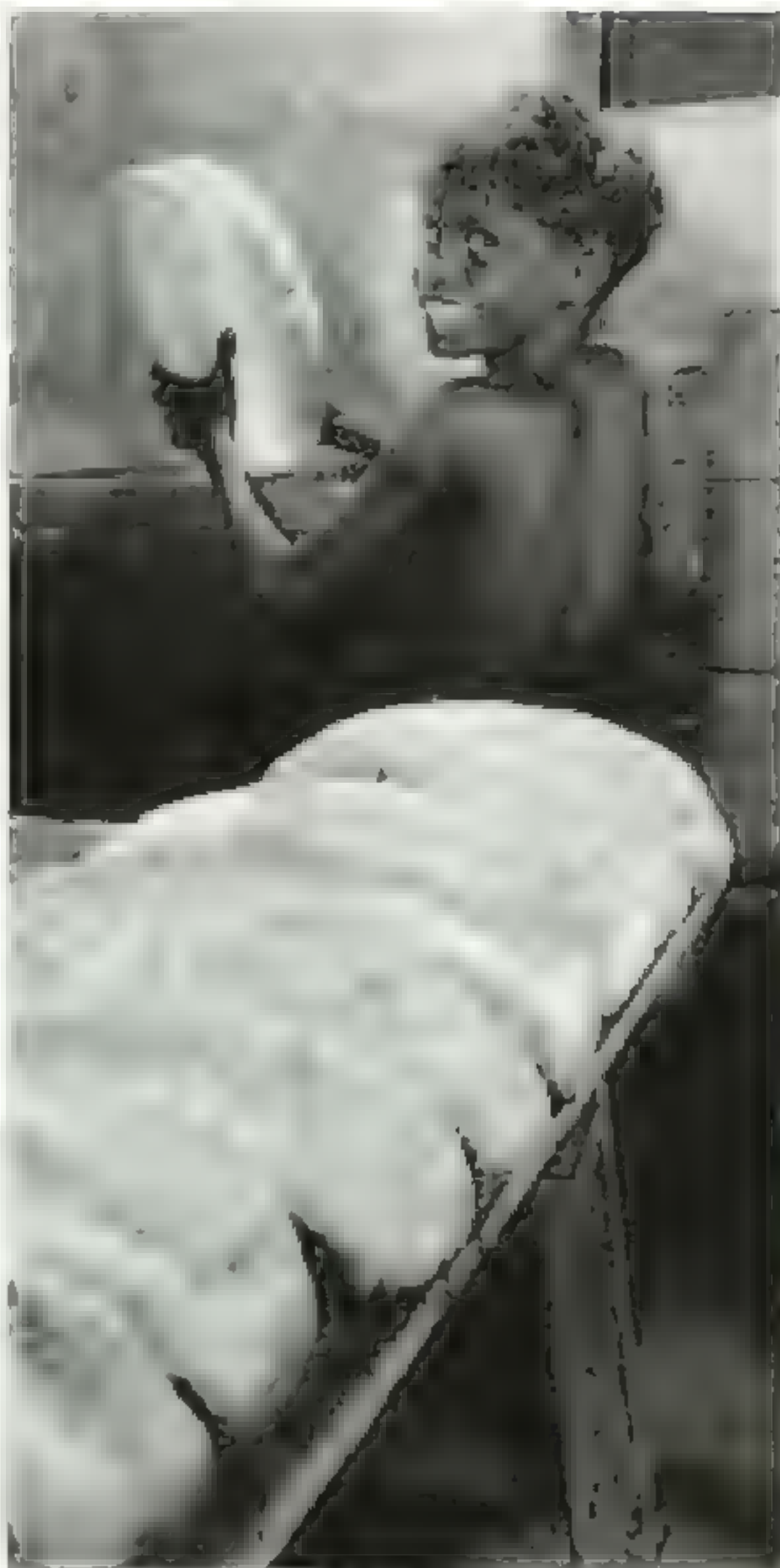
When I saw the drawing of a woman in a dress, I had seen a drawing of a woman in a dress.

Maybe I was not a woman in a dress. I had seen a drawing of a woman in a dress.

When I saw the drawing of a woman in a dress, I had seen a drawing of a woman in a dress.

When I saw the drawing of a woman in a dress, I had seen a drawing of a woman in a dress.

When I saw the drawing of a woman in a dress, I had seen a drawing of a woman in a dress.



"Plenty Good Tucker Umbakumba," Says
Lerrimaria

The woman in the photograph is Lerrimaria, a woman from the Umbakumba area. She is standing in a field, and there are some plants and a fence in the background.

There were many more women in the area, and they were all very nice.

Settler and McCarthy excavated the graves of some of the women in the area. They found many bones and other things.



Forty-second Collection of the General Land Office, Survey of the Northern Quarter of the Township of Liberty, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

to establish a chronology in Arnhem Land.

They crossed to Groote Eylandt and at Bartulumba Point investigated an aboriginal burial cave, previously located for them by Kulpfin. This aborigine led Frank, Fred, and me along the rocky cliffs and up a narrow vertical cleft to a cave where many skeletons lay in complete disarray. Elements and animals had scattered skulls, limb bones, ribs, and vertebrae once carefully wrapped in bark.

While Fred looked for the bones of a cave to a pile of bones. As he picked up a marked wooden spearhead from the junction of vertebrae, he recounted with glee how his father had killed the man in a fight because he was "proper cheeky fella."

"Him quiet fella now, all right," Kulpfin concluded.

Aboriginal Stag Party

Soon after I returned to the base camp at Umbakumba, I arranged for Groote Eylandt aborigines (men only) to perform the most secret of their rituals, the *umakulja*.

The sacred ground, hidden deep in thick forest, was an oval shaped clearing smaller than a tennis court. Three bough huts closely stored ceremonial poles, meticulously carved and painted.

Membership of the ceremonial group was limited strictly to fully initiated men; no other aborigines were allowed on the premises.

With my wife as cook, Peter Bassett-Smith, Howell Walker, and I pitched our camp on a beach called Arawa. During the two-week ceremony we photographed the rituals with still and movie cameras.

Every day, and sometimes twice a day, the natives enacted ancient legends; in spirited song and vigorous dance they told of mythical serpents, turtles, sting rays, bandicoots, jungle fowl, and crabs.

We recorded many of the aboriginal songs—wind, primitive music that commemorated the epic deeds of giant creatures who lived when the world was young (page 779).

Caves Preserve Ageless Paintings

Meanwhile, Bert Deignan, ornithologist, and Dave Johnson, mammalogist, combed the Umbakumba area. Their hunting grounds included sandy ridges around Little Lagoon, small streams that entered it through mangrove-lined channels, wide swamps bordered by "goat paddocks" of eucalyptus, and dense forests of eucalyptus with coarse carpets of low shrubs.

The *Phoenix's* late arrival limited Deignan's and Johnson's time on Groote Eylandt. Nevertheless, during the few weeks they had there

Deignan noted 89 species of birds and secured 70; Johnson collected more than 100 mammals, many of them never before recorded on the island.

Fred McCarthy made a quick visit to Chasma Island, just north of Groote, where Flinders and his artist, William Westall, had seen and copied "rude drawings made of charcoal and something like red paint." But Fred's short stay allowed him to sketch only a few of the many paintings he had seen. He was most anxious for a party to return with him to assist in recording the aboriginal art and also the fantastic beauty of the island.

Later the photographers, my wife, and I accompanied Fred to Chasma Island to sketch and photograph.

The island, about two miles long and somewhat less wide, looked like a mighty medieval fortress. Its precipitous walls and deep gorges would test experienced alpine climbers. Rising steeply from the blue-green sea, the cliffs had eroded into grotesque patterns or tumbled into tremendous jumbles (page 764).

On Chasma Island Flinders had noted a drawing of a kangaroo followed by 32 people. I saw a canoe with 12 men and 12 passengers and another craft with 11 large fish attached to it by ropes, showing that even primitive artists sometimes could tell good fish stories (pages 762 and 782).

Aborigines Have Few Personal Possessions

None of our little group at Chasma wanted to leave the fabulous rock art galleries of this charming island; but our time in the Groote Eylandt area had run out. We had to pack up for the move to our next base camp at Yirrkala, 125 miles by sea to the north on the mainland.

And none of the expedition members liked the idea of saying good-bye to many aboriginal friends made on Groote Eylandt. With these natives we had shared various experiences, rough and smooth, but always valuable. Without ever talking about it, they taught us their calm philosophy; they simply lived it.

We had seen babies born into families living as our neighbors in bark huts. Black men, women, and children had shown us how happily they could subsist off the land with almost no belongings. Spears, throwing sticks, little dilly bags, and digging sticks were their principal possessions.

Until quite recently they had no permanent shelters as homes; casual windbreaks made of boughs provided their only protection while sleeping in the open. An empty dilly bag converted to loincloth was sufficient covering

for the well-dressed tribesman (page 752). Women wrapped calico around their hips and sometimes covered their breasts. Until six or seven years old children went quite naked.

One of our party applied to me for permission to stay longer on Groote Eylandt and complete his work among these natives; he pointed out that for him to leave would be like breaking off an interesting interview in mid-conversation. So Howell Walker, who arrived with the *Phoenix* seven weeks after the main body of the staff, said farewell and photographed the rest of us departing by launch and flying boat for Yirrkala.

The Royal Australian Air Force moved most of our personnel and equipment to a wartime airstrip (Cove) about four miles from the Yirrkala mission station.

Our camp near this mission turned out to be the pleasantest of all. We pitched our tents on the crown of a sand hill carpeted with a thick mat of dry grass, a welcome change after the yielding sand of Umbakumba.

Beyond our front yard swept a wide curving beach, where a crashing surf thundered day and night. In the "back yard" we had a fresh-water swamp shaded with large trees and fringed with luxuriant grasses. Here wound a creek of crystal water whose pools alleviated the necessity of a kumbuk.

And here in mid-dry season the weather was at its best. The early morning mists of July gave way to warm days, while nights stayed cool and refreshing.

Soon after we settled down in our new camp, the Northern Territory Administrator's patrol vessel *Karru* visited us. With it came W. J. Harney, generally known to us as Bill and to the aborigines throughout the north as "Bilamev." He joined the expedition as guide and adviser.

His knowledge of Arnhem Land, especially the coast of the Gulf of Carpentaria, is phenomenal; of the aboriginal people, deep and understanding; of the fauna and flora, remarkable.

As storyteller, poet, and singer, Bill amused everyone with his tales of the country, of its birds and animals, and of the adventures of the blackfellows; and he sang rollicking songs of stockmen or sailors.

Lone White Woman Remains with Blacks

Stopping briefly to pick up some of our members, the *Karru* continued 20 miles south to Port Bradshaw (not a port in our sense; just a large bay without docking facilities).

Here near the beach Margaret McArthur set up another nutrition camp. She wanted no other companions than two aboriginal in-

terpreters, Mau and his wife, Ball; Margaret claimed she would get a true picture of the natives in their natural environment if she were the only European present.

Margaret's decision to conduct her research alone was that of a brave woman. She had known her interpreters only a few days, and the aborigines in the area were complete strangers to her. Yet she stayed with those people nearly three weeks, observing their methods of gathering and cooking foods, and tabulating the quantities collected.

On her return, Margaret did admit she was not entirely comfortable when the *Karru* departed. For the first few evenings Mau entertained her with details of his part in the killing of some Japanese pearlers. Later she persuaded him to stick to more informative and less harrowing tales of hunting and fishing.

Natives Ask for "Sakshin"

The aborigines at Yirrkala were most friendly and willing to help us. They laughed, joked, and sang all day. Not uncommonly a native would stroll over to the laboratory where Billington and Howes worked, and ask for a "sakshin," their term for the venipuncture method of obtaining blood. Through their contact with Royal Australian Air Force doctors during the war, the blackfellows believed this a form of white man's magic that more than felt better.

As on Groote Eylandt, John Bray organized a "cockroach committee" at this second base camp. Two old blackfellows were trying to figure out why John went to all this trouble of getting insects, lizards, and snakes.

"May be," said one of them, "poor pickaniny be onga that white man, him hungry."

Fred McCarthy did a unique piece of research in the field of string games (cat's cradles). Over the greater part of Australia the aborigines are expert in manipulating with complicated finger movements a long loop of string into some real or fancied resemblance to an animal, plant, or other well-known object. The game is played mostly by women and children, but men have a number of secret string patterns which females never see.

McCarthy had as his informant a young woman called Naraa, a positive genius with a single strand of string. She alone produced 80 different string figures. Only lack of time prevented Fred from recording an even larger number (page 750).

Soon after their return from Port Bradshaw, Setzler and McCarthy flew to Melkandji Island, 135 air miles to the west of

Bark paintings done at Yirkala fascinated me. In simple but beautiful designs they told of the mythical ancestors of the tribe and their doings of long ago (page 759).

In the late afternoon, when the aboriginal artists had finished their work, Bill Harney and I would sit among them, listening to stories they had illustrated on sheets of stringy bark. We heard of the women of Kurubala whom everyone feared; of Muramuru the great fisherman; of the Milky Way, of Orion, and other stories of the starry sky.

Leader Presented with His Own Coffin

Accepted as a member of the tribe, I received my place in its organization. According to the old men, my ancestor was Tjambul, the thunderman, a very important and somewhat dangerous character. The thunderstorm was his voice, the clouds and the rain the result of his power. Most important of all, it was he who sent the tiny spirit children to earth to become human beings.

One day the elders brought me a cylinder of bark painted with many strange symbols. This, they explained, was a coffin in which the bones of a dead man were interred after final burial rites. With shy smiles and gestures between themselves, they added that the designs belonged to my ancestors. In other words, it was my coffin! The aborigines regarded this as a good joke; to me it seemed rather gruesome. Nevertheless, I still have that coffin. One never knows!

We spent much time with the native children. They were so unafraid of us, so completely at ease, that Russell-Smith and I decided to make a moving-picture film of their everyday life.

Full of fun and laughter, the kids quickly fell into the spirit of the thing. We photographed them paddling their tiny dugout canoes through rough water, playing their complicated string games, building odd figures in the sands or staging their childish ceremonies, spearing fish or bathing in the creek.

Dave Johnson wanted to capture a dugong, a herbivorous sea mammal inhabiting the shallow waters of northern Australia. The female (if the mermaid legend) clasps her single young tightly to her breast with one flipper when she rises to breathe.

The dugong measures up to eight feet in length; never leaves the water, for it feeds on submarine pastures of a sea plant known as dugong grass. The nutritious flesh of this creature resembles pork or veal; aborigines like it when cooked on coals.

Areas where dugong feed are well known and carefully scanned by the natives. At the

first sign of floating grass, which indicates dugong "grazing" below, hunters slowly paddle their canoe to the spot and spear the animal as it rises to the surface for air.

Just opposite Bremer Island in the vicinity of Yirkala is a sheltered bay where dugong grass grows plentifully. Here Maulin, one of our helpers and a noted hunter of the sea mammals, had got many. But their capture requires more than a quick eye and a skilled hand. It calls for a calm day—no wind and a still sea.

At last the perfect hunting day arrived. Maulin, with 14-foot spear, Dave with gun, and Peet with camera set out for the dugong bay. But when they rounded the point behind which the native kept his dog out, they saw the canoe paddled by several of Maulin's wives (he had many) well on the way to Bremer Island. The aborigine's language or that of the others was not recorded. I have never did see a dugong.

However, while at Yirkala, Johnson captured 150 land mammals. It was one of the sights of the month evenings to see Dave shooting at, and occasionally hitting, bats as they arabesqued overhead.

Often natives brought a kangaroo or wallaby into camp. These were occasions of rejoicing, first for Johnson, second for members of the expedition; for, after Dave had taken the skin, he passed the carcass to the cook. The fresh meat made a welcome change from the usual tinned food and an occasional fish.

Naturalists' Rare Find

Observations by Ray Specht and Bert Duggan seldom benefited each other, but the two naturalists shared one particular interest at Yirkala. Bert caught a rare friarbird (so called because of the bald patch on its head) which frequented a scarlet-flowering mangrove. This tree, Ray later discovered, was as rare as the bird; it had not been previously recorded in Australia.

At Yirkala Bert observed 115 new, collected 82 different species while Ray added 288 species to his ever-increasing pile of dried botanical specimens.

Here Bob Miller also made a rich haul. A coral reef, teeming with fish, lay less than 200 yards from the cookhouse. Along this one reef Bob secured more than 110 different species.

In this work he had the enthusiastic assistance of the native people. Once he counted 35 of them retrieving the fish stunned by the action of powdered detritus root. Bob had difficulty making the aborigines understand that very small fish were as valuable to him



Aboriginal Artists Explain Their Paintings to the Expedition's Leader

It is not clear whether the above results are due to the fact that the model is not a true model of the system, or whether the model is a true model of the system, but the results are not reliable due to the fact that the model is not a true model of the system.

In Arctic Land the
Arctic Alaskan
Aboriginal Faces for
Study in America

For many years the
Arctic Alaskan
Aboriginal faces have
been a subject of study in
America.

Arctic Alaskan
Aboriginal faces have
been a subject of study in
America. The study of
Arctic Alaskan
Aboriginal faces has
been a subject of study in
America.

Arctic Alaskan
Aboriginal faces have
been a subject of study in
America. The study of
Arctic Alaskan
Aboriginal faces has
been a subject of study in
America.

Arctic Alaskan
Aboriginal faces have
been a subject of study in
America.





When Did Aborigines Paint Chasma Island's Stenciled Hands?

By [Name] [Location] [Date]

When [Name] [Location] [Date]

When [Name] [Location] [Date]

When [Name] [Location] [Date]

Dark Heads and Pearly Smiles Set Old Hong Kong Tea and Water Lilies

When [Name] [Location] [Date]

When [Name] [Location] [Date]

When [Name] [Location] [Date]

When [Name] [Location] [Date]





Sunlight and a White Man Reflect on Paintings by I. T. T.

The painting is a reflection of the artist's own work, and it is a reflection of the artist's own work. The painting is a reflection of the artist's own work, and it is a reflection of the artist's own work. The painting is a reflection of the artist's own work, and it is a reflection of the artist's own work.



CHESAPEAKE BAY

Chesapeake Bay, showing the rocky shore and the small boat in the water. The bay is a large body of water, and the rocky shore is a prominent feature. The small boat is a fishing boat, and the people on board are likely fishermen. The bay is a vital part of the local economy, and the rocky shore is a natural barrier against the ocean.



INDIAN MEN

Two Native American men standing side-by-side. They are both wearing traditional clothing, including a red and white striped garment around their waist. They are standing on a sandy beach with a body of water in the background. The man on the left is slightly taller than the man on the right.

Bright Colored Bees, Insects, and Fish of Cienega Palmar suggest the Variety of Arthropods and Fishes of the Valley of Mexico. The Fishes of the Valley of Mexico are the same as those of the Valley of Mexico. The Fishes of the Valley of Mexico are the same as those of the Valley of Mexico.





Shu Weas Native Bands
with the Army China
Mexico Cities in Mexico's
Frontier

On the 1st of June
at Mexico City
the army of the
United States
has been ordered
to move to the
frontier of the
United States
in order to
protect the
border of the
United States
from the
Mexican
army.

The army of the
United States
has been ordered
to move to the
frontier of the
United States
in order to
protect the
border of the
United States
from the
Mexican
army.

The army of the
United States
has been ordered
to move to the
frontier of the
United States
in order to
protect the
border of the
United States
from the
Mexican
army.

The army of the
United States
has been ordered
to move to the
frontier of the
United States
in order to
protect the
border of the
United States
from the
Mexican
army.



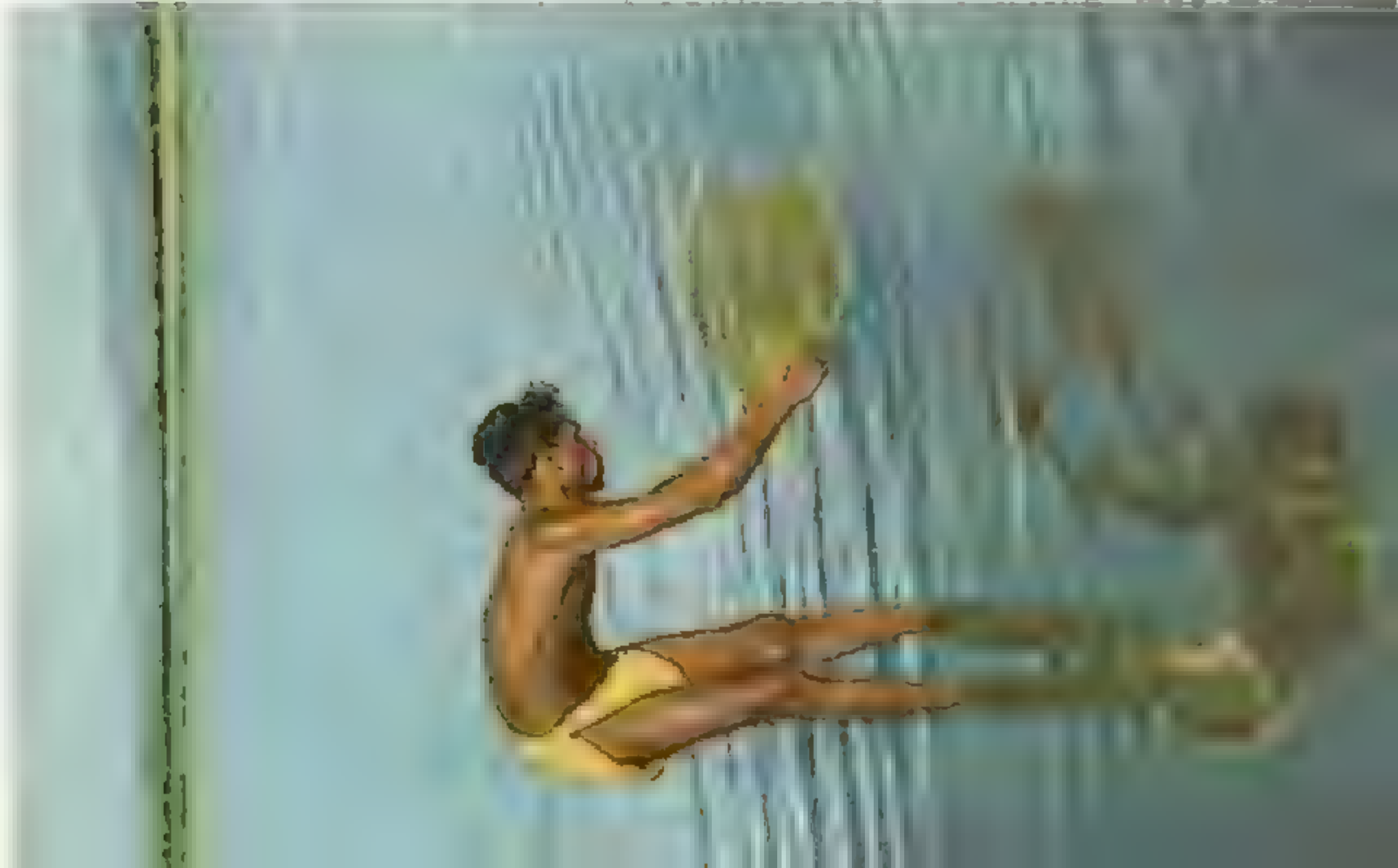
Not Just the Cases of Neglected and Medical Examinations Can Racism in Medicine from Taxes and Social Policies

The history of racism in medicine is a long and complex one, with roots in the early days of the United States. From the days of slavery to the present, Black people have been treated as less than human in the medical system. This has led to a lack of trust in the medical system and a reluctance to seek medical care. The result has been a high rate of preventable deaths and a significant health disparity between Black and white people. This article will explore the history of racism in medicine and the impact it has had on the health of Black people. It will also discuss the current state of the medical system and the steps that need to be taken to address the health disparity.



There Is a Native Land—Inhabitable, Rugged, Hungry, Thirsty and Still Known to White Men

From a hill near Orem, Utah, looking westward toward the mountains. The mountains are the same as those seen from the same point of view in the photograph on page 100.



Painting and Varnishing
 1000 (Private Property)
 Paints and Varnishes

101-102

$\alpha = 0$, $\beta = 0$, $\gamma = 0$

The following table, which
 is a summary of the results of
 the investigation, shows the
 results of the investigation of
 the effect of the various factors
 on the rate of reaction. The
 results are given in the table
 in the form of the rate of
 reaction, which is the rate of
 reaction per unit of time.

[illegible]



Oklaipoi and Natives Hop Like Kangaroos Through a Dust-stirring Dance in a Secluded Glen
near the mouth of the Oklaipoi River. The Oklaipoi are a branch of the Oklaipoi tribe of the
Oklaipoi. The Oklaipoi are a branch of the Oklaipoi tribe of the Oklaipoi.



An Aborigine of Brazil Blows a Primitive Trumpet, the Van Jump to the Rhythm

A painting of a man in a tropical landscape, holding a long, thin trumpet aloft. The man is standing, and another person is visible in the background. The scene is set in a natural, outdoor environment with trees and foliage.

A Sacred Drum Cicle in Coat of Many Colors, While a Dancer Has His "Buttons" Dressed Up the Back

The drum circle is a sacred ceremony of the Hopi Indians. The drum is made of a tortoise shell and is used to call the spirits. The dancers are dressed in traditional Hopi clothing, including moccasins and leggings. The ceremony is held in a circular enclosure made of brush.





At Lee Land's Wind-tossed Wattle Trees Blossom Brightly For Plover Scout Squad

as the larger ones. Naturally, the big staff appealed more to his helpers, for they received any surplus.

A visit to a coral reef is always intriguing. The entrancing colors of the corals, the varied hues of sponges, the deep orange of some anemones, the indescribable beauty of the fish as they dart in and out, and the remarkable attraction of the anemones, or sea flowers, leave an indelible impression.

In form and delicacy of coloring the sea anemones are unrivaled even in surroundings of more than ordinary brilliance. They are well named flowers of the reef, for they bear more than a passing resemblance to blossoms; their tentacles wave like the petals of the land anemone from which they take their name.

The sea anemone captures its prey, usually small fish, by paralyzing it with its stinging cells. A strange partnership of the reef exists between anemone and the small, highly colored anemone fish, somehow immune to the sting of its companion. To capture its food, the anemone fish lurks among the tentacles of the host until the prey passes within reach. With a quick rush he catches a small fish, drags it within range of the stingers, and holds it there until paralyzed. The anemone and its companion share the meal.

Natives Make Spirit of Sick White Man Happy

During the stay at Yirrkala our only staff change took place. Keith Gordon had to return to Adelaide, South Australia, because of his father's illness. John Bray took over as transport officer, and Reginald Hollow arrived from Darwin to become the new cook.

A day or so before Gordon's departure, Yirrkala natives on their own initiative held a *corroboree* (pages 770 to 773). This ceremony was a spontaneous demonstration to make, as they put it, the spirit of the sick man happy. At the end of the performance one of the blackfellows handed a carved message stick to Keith. The aborigine explained that markings on the baton were merely symbolic but meant to convey hope for the sick man's recovery.

At the end of August the motor launch *Wanderer* arrived from Groote Eylandt. Fred Gray brought Howell Walker back to the expedition fold. They had recently completed a journey up the Roper River, northeastern boundary of Arnhem Land. Remembering for several days during this voyage the *Wanderer* became the object of a search by planes from Darwin and a subject for daily news items from Radio Australia.

Gray and Walker explained that they had been adrift for three days inside the Roper mouth until the Gulf of Carpentaria calmed down enough to let the *Wanderer* return to Groote Eylandt. It was this delay, unaccounted for at the time, that caused alarm when the launch failed to show up at Umanakunda.

Early in September we broke camp at Yirrkala and began the move in several plane-loads to Darwin. From there we shipped out by way of Van Diemen Gulf and the East Alligator River to our third and last base at Oenpelli, 130 miles east of Darwin (page 760).

Two of our staff, Dave Johnson and Peter Bassett-Smith, elected to travel from Yirrkala by boat with some of the heavy equipment. Johnson disembarked at Cape Don to look for animals on the Cobourg Peninsula. Bassett-Smith continued to Oenpelli aboard the vessel.

In selecting Oenpelli, I had estimated that it would be the most spectacular, most productive, and at the same time most uncomfortable of our three research centers.

Our tents faced a large billabong, its surface spattered with water lilies and fringed with green grasses; on the far shore a eucalyptus forest spread to the 300-foot escarpment of the rugged Arnhem Land tableland (page 768).

It will be a long time before I see anything more stirring than the sight from our camp. Shortly after dawn a filmy mist crept slowly across the surface of the billabong veiling and softening lilies on the water, the outlines of distant trees, and the reflections of the torlike hill called Inyalark.

Then the mist changed from the soft, silvery grays of dawn to the rosy hues of sunrise, disappearing into nothingness as tropic sun rays fell on its ephemeral surface.

Nor were the late afternoons less beautiful. As the sun sank into the haze of bush fires, it glowed like a huge ruby and warmed opalescent purples of the distant escarpment with the ruddy tones of evening.

During the day, wide plains and rocky hill-sides reflected the sun's burning heat; winds blew hot and dusty. At midday the temperature in our tents stayed above the century, sometimes reaching 107° F.

Oenpelli has four distinct physical environments, each rich in its own flora and fauna: the extensive swamplands; the open savanna woodlands; the black soil flood plains of the Alligator Rivers; and the forbidding plateau where cave floors hold relics of early man and cave walls show primitive paintings.

There were birds everywhere: ducks on the water, jungle fowl in the forest, quail in the grass, and pigeons in the treetops.



A Robinson Crusoe in A. S. M. Land Types His News and Shows His Bed Room Picture



Even with Sardines Under His Nose, the Australian Native Can Seem to Smell a Mouse

Not a feline, this mouse-pet (*Satanstoe kiffneri*) has never been domesticated. Hunger and fear were in a camp kitchen near Oenpelli. A flush shot sent it scurrying from the cat, but this picture—taken with three feet, sent him scampering. He is now back to back to a cat (see page 749).

the Coburn Peninsula. He covered much the same ground as did John Gilbert, the naturalist, in 1840. Dave wanted to obtain another specimen of the mouse-pet, but the cat was too much for him.

Lonely Walk Through the "Never-never"

For three weeks Johnson tramped the peninsula, collecting 45 animal specimens. In early October I received a signal by radio from him; he planned a 160-mile walk to Oenpelli and expected to arrive in 12 days.

Now at the end of the dry season the heat was intense; streams were evaporating rapidly. Although I assumed that aborigines would travel with Johnson, I knew how easily one could meet with serious trouble for want of water in this country. One has to live in the "never-never land" to realize its isolation, emptiness, and dangers.

Bob Miller finished fishing and prepared to return to the United States.

Occasionally we had parties when everyone drank to the other's health, sat down to special meals, and spent the evening singing folk songs and telling stories. As a farewell to Bob, who Ray excelled himself. Halfway through the banquet someone called out "There's Dave."

Coming slowly across the plain was the mammalogist; he carried a knapsack and his gun.

In a body we rose from the table and rushed out to welcome him.

"Where are your black boys?" asked Frank. "White men just don't move in that country without black boys."

"What boys?" I have asked blandly.

And that, briefly, was Dave Johnson's quiet, self-confident, fearless and full of common sense. As he could not find any blackfellows to make the entire journey with him, he had set out alone.

He first plotted his course on a topographically inaccurate map (the one used at the time) then navigated by compass.

When I remonstrated with Dave for tackling a hazardous trek alone, he assured me the journey had been quite uneventful. He told of ample game and streams with water; and he could travel at his own pace. However, nobody but Dave will ever know the whole story of his adventure.

So Miller's farewell became at once Johnson's welcome. Merrily we sang the camp ditty, and Bill Harney recited a poem he had that day composed about Oenpelli. There's one verse.



A frame of sticks and strings helps an anthropologist copy rock paintings to scale.

How long the aborigines spent their other months no one can say. At first they seem to have appeared to be the work of children, but the more one looked at them, the more one saw the work of experienced hands. Fred McCarthy, the Sydney artist, has been copying the work of native art such as the kangaroos painted on the walls of a cave in the Blue Mountains.

There was Monty chasing Mimis, like
 upon the trail
 And Bert behind his whiskers, after snake and
 duck and quail
 There was Bob securing latches that were clung
 to his knee
 And Dave a shooting dinghats as they flitter
 through the trees
 Mid the "muzzies" near the pool at Oenpelli
 (Muzzies are mosquitoes.)

With Bob Miller's departure the rest of us realized how little time we had left together. Australians and Americans had lived for more than thirty weeks as one family.

Research work of the expedition resulted in a collection of 13,000 fish, 13,500 plants, 850 birds, and 400 animal skins; literally tons of ethnological specimens, bark drawings, and archeological finds; a mass of data on the habits and customs of the natives; and a vast collection of photographs.

And with us we took away the simple conviction that the natives' attitude to their white visitors largely reflected the visitors' treatment of the natives.

First rains of the wet season sped up our move from Oenpelli in mid-November. Aborigines assisted in folding tents, packing down cases, and shifting heavy equipment.

To reach the river landing we had to go seven miles over the plains before they became flooded. Here black men worked with white against time to stow gear aboard a large boat that was rushed out. Down the Darling River we swept with the swift current, then headed for Darwin to keep an appointment with civilization.

Calmly, slowly, the aborigines returned to their halcyon life in Arnhem Land where haste had no place, where time never mattered, where tribal folk didn't reckon in days or years or even centuries.

Adobe New Mexico

By MASON SUTHERLAND

With Illustrations by National Geographic Photographer Justin Locke

FROM the heights above Santa Fe, oldest capital city in the United States, one can see the lights of Los Alamos, the Atomic Age city.

Indians working close to atom bombs go home to their pueblos by night and take part in fertility dances already old when Spanish explorers marched in four centuries ago.

Descendants of the Spanish settlers build their cool, simple homes of adobe, or sun-dried brick, just as ancient Egyptians used to do.

Anglo-Americans, as the third population element is called, acclaim both adobe architecture and tribal dances. Almost to a man they say, "I wouldn't live anywhere else." They point to clouds drifting like galleons across the sky, or to stars blazing like undimmed automobile headlights.

Forests Paint Hills Green and Gold

Here, where mountain peaks rise to 15,000 feet, the summer day is rarely hot, and June nights call for lighted fireplaces.

The Rockies, colored forest green or open-gold according to the season (pages 798 and 799), rise in two ranges, the Sangre de Cristo and the Jemez, their highest peaks agleam with snow.

These ranges straddle the Rio Grande, a brawling, muddy stream flowing out of the mountains of Colorado. For miles it tumbles through an enormous, unpopulated chasm. Where its valley flattens out somewhat, watering cottonwoods and crops, it supports the Pueblo Indians, most a leashed aboriginal culture surviving in North America.

Between river and mountains stretches a desert stalked by piñon pines, which from a distance appear to have been planted in orchards, or by oceans of gray green sage-brush, which give the illusion of being fields of ripening hay. Lava badlands and raw rock cliffs enhance the desert's rich variety (page 854).

At intervals the wasteland is relieved by a thriving green oasis, the irrigated valley of a trout stream flowing out of snowbanks above timberline.

This report deals with that section roughly bounded by Santa Fe, Los Alamos, Taos, and Cowles (map, page 787).*

On a sagebrush plateau at the north end of this quadrangle stands Taos, a cluster of adobe homes built around the town plaza. In all

appearances a country village, population 1,000, Taos is the cosmopolitan home of hundreds of painters, writers, and wealthy folk who have made it the Southwest's adobe Greenwich Village (page 803).

Artists in work clothes and art students in hush whiskers frequent the Plaza. At fiesta time, when everybody likes to dress in costume, you cannot tell artists from cowboys.

On market days so many Spanish-American farmers in wide-brimmed black hats cluster beneath the Plaza's shady arcades that a stranger might imagine himself in Spain were it not for signs like J. C. Penney and Ruth's Beauty Shoppe.

Loafing, long-haired Pueblo Indians wrapped in cotton blankets exchange store for store with visiting easterners, while working Indians in blue jeans drive trailer trucks through the streets.

Twice daily a horse-drawn stage leaves the Plaza on a "rubberneck" tour of San Geronimo de Taos (Taos Pueblo), close by.

Shaded windows facing the plaza hold open chairs put up for sale by a local artist. Other houses loom, and here and there willow.

Twice a day the Plaza becomes a scene that in the words of Fitzgerald, "from a town with no other than the old things of the world."

Moon, Stars, and Neon Light the Plaza

When the last neon light flickers off, only moon and stars provide illumination, for the Plaza has street lamps but no appropriation for current.

"We resent the influx of neon like a plague," one resident told me, "but we are happy at having no traffic lights or railroads. Sometimes snow clogs the highway and delays the mail, but who cares? Not I."

Behind mud walls shaded by rows of cottonwoods, Taosños lead lives of deep content. Bats of Indian corn hang drying beside their corner fireplaces. Their carved Spanish doors match heavy Spanish chests. Cool little canals flow intermittently through their lawns, and hollyhocks spring up between flagstones in their courts. Bowers of yellow roses bloom in their gardens.

* See in the NATIONAL GEOGRAPHIC MAGAZINE "Living Our Spirit Southward," June, 1940, and "New Mexico Melodrama," May, 1943, both by Buck Erick Simpson.



Once a Year Santa Fe Brushes Care, Everyone Gets into Festive Dress

When the city of Santa Fe brushes care, everyone gets into festive dress. The city of Santa Fe is a beautiful city with a rich history. The city is known for its adobe buildings and its art. The city is a great place to visit and to live. The city is a great place to experience the beauty of the Southwest.

When the city of Santa Fe brushes care, everyone gets into festive dress. The city of Santa Fe is a beautiful city with a rich history. The city is known for its adobe buildings and its art. The city is a great place to visit and to live. The city is a great place to experience the beauty of the Southwest.

When the city of Santa Fe brushes care, everyone gets into festive dress. The city of Santa Fe is a beautiful city with a rich history. The city is known for its adobe buildings and its art. The city is a great place to visit and to live. The city is a great place to experience the beauty of the Southwest.

When the city of Santa Fe brushes care, everyone gets into festive dress. The city of Santa Fe is a beautiful city with a rich history. The city is known for its adobe buildings and its art. The city is a great place to visit and to live. The city is a great place to experience the beauty of the Southwest.

When the city of Santa Fe brushes care, everyone gets into festive dress. The city of Santa Fe is a beautiful city with a rich history. The city is known for its adobe buildings and its art. The city is a great place to visit and to live. The city is a great place to experience the beauty of the Southwest.

When the city of Santa Fe brushes care, everyone gets into festive dress. The city of Santa Fe is a beautiful city with a rich history. The city is known for its adobe buildings and its art. The city is a great place to visit and to live. The city is a great place to experience the beauty of the Southwest.

Two Artists 'Discovered' Here

When the city of Santa Fe brushes care, everyone gets into festive dress. The city of Santa Fe is a beautiful city with a rich history. The city is known for its adobe buildings and its art. The city is a great place to visit and to live. The city is a great place to experience the beauty of the Southwest.



Indian Pueblos, Spanish Villages, Atom Laboratories—That's New Mexico & Fiesta Land



Santa Fe. Don Lorenzo Zozobra. Vested High Priest of Gloom for Burning at the Season

the Zozobra festival, which is a great one, is held on the first day of the month of September. It is a festival of the dead, and the people of Santa Fe, New Mexico, burn a large effigy of a man, who is dressed in a white suit and a black hat, and who is called Don Lorenzo Zozobra. The effigy is made of straw and is about 15 feet high. It is burned in a public square, and the people of Santa Fe, New Mexico, watch the burning with great interest.



Santa Fe Veterans: Losing No Time Getting into Cowboy Clothes, Watch a Weaver at Work

Manuel Minder demonstrating at the Southwest Arts and Crafts store in Santa Fe. Embroiders a blanket in the adobe building. The building is a traditional adobe structure with a patterned rug on the floor.

to be fortresses of adobe. The walls are made of mud-brick, and the windows are small and high. The buildings are built on a hillside, and the outdoor ladders still serve as staircases and elevators.

The rooms facing the apartments are dotted with coconal adobe, in which women and children play, and men weave. Slats, reeds, and linden are on poles-mounted platforms, and the

The Kiva, Relic of Pre-Christian Times

Ladders reaching out of circular underground chambers point down like claws to the dark, vaulted but windowless interior. The chambers are built of the same mud-brick as the rest of the town.

A narrow passage surrounds the kiva. The walls are made of adobe, and the floor is made of mud.

Early in the morning, the sun is out, and the air is warm. The people are busy with their work, and the town is full of life. The kiva is a relic of pre-Christian times, and it is still used today.

the people are busy with their work, and the town is full of life. The kiva is a relic of pre-Christian times, and it is still used today.

Santa Fe Señoras in Blue Jeans

Santa Fe is a special kind of town, and the people are busy with their work. The kiva is a relic of pre-Christian times, and it is still used today.

A century ago the bullwhackers of the Santa Fe Trail passed their horses and mules in the Plaza. The Plaza is a busy place, and the people are busy with their work.

I went to the Plaza with my granddaughters, and we found a lot of people. The Plaza is a busy place, and the people are busy with their work. The kiva is a relic of pre-Christian times, and it is still used today.

The Plaza is a busy place, and the people are busy with their work. The kiva is a relic of pre-Christian times, and it is still used today.

Before the *Mayflower* landed at Plymouth Rock, the pioneers laid out Santa Fe, using a plan drawn up in Madrid by royal order.

Today heavy traffic, proceeding without stop-and-go lights, lumbers through narrow streets designed for the Conquistadors' horses and oxen. The *mañana* tempo lingers; no one hurries much.

Since 1610, year of its founding, Santa Fe has been a capital, the oldest in the Nation. It has flown the flags of Spain, Mexico, and the Union, and briefly it belonged to the Confederacy.

Seat of government was the Governors Palace, a rambling one-story adobe structure on the Plaza. Here, when he was the American governor, Lew Wallace wrote parts of *Ben Hur*. In recent years the Palace has been a state museum of history and archeology. Says a marker: "From 1610 to 1910 the residence of over 100 governors and captains-general. Oldest public building in the United States."

Santa Fe Celebrates Its Liberation

Here in 1680 Spanish colonists stood siege by 3,000 rebellious Indians. Abandoning Santa Fe, they fled to old Mexico. Twelve years later Captain-General Diego de Vargas led a triumphal return.

Since 1712 De Vargas has been commemorated with a fiesta (pages 784, 794, 795, and 821). Each Labor Day week end the Plaza is given over to street dances, parades, and Indian markets; and the captain-general, impersonated by a citizen, rides again.

Santa Fe zealously preserves a statue of the Virgin, known as La Conquistadora, which, recent research has shown, came to New Mexico with the first Conquistadors. Saved by a refugee during the siege of 1680, she was brought back in triumph by De Vargas in 1693.

I saw La Conquistadora wearing a handsome wardrobe presented by women of her parish. Housed in St. Francis Cathedral, she stood in her own 1717 chapel preserved from the old *parroquia* (parish church) which used to occupy the site.

Archbishop John B. Lamy, the "Bishop Loner" celebrated in Willa Cather's *Death Comes for the Archbishop*, built the stone cathedral around the adobe *parroquia* so that Mass might be celebrated without interruption. Later he demolished the adobe church-within-a-church and proudly left the stone standing alone.

It is fashion's change. Santa Fe has turned its back on stone in favor of adobe.

Adobe's renaissance followed the restoration


of the Governors Palace a few decades ago. Writers and painters built mud mansions. The Church, Catholic and Protestant, became an adobe convert. The most fashionable hostelry went up in adobe style. Uncle Sam contributed a handsome post office to match. Even filing stations and auto courts were built in the old-new manner. Now Santa Fe looks more than half adobe.

City Glories Humble Mud

Anglo-Americans have learned that nothing insulates a room from the sun more effectively than a heavy sheet of earth. Even on the rare hot day some eastern visitors walk into an adobe hotel room and demand, "Shut off that air conditioning."

Adobe similarly muffles sounds; voices always seem pleasant.

Six thousand years ago, before men knew how to build with stone, Egyptians constructed their Nile-side homes of sun-dried brick. Mesopotamian and early Greek civilizations were founded on humble mud building blocks.

The art of making such bricks descended from Egyptians through Moors to Spaniards. The very word *adobe*, from the Spanish verb *adobar* (to plaster), has been traced to the Egyptian hieroglyph , transcribed *dbt* and probably pronounced *doh*. The New Mexico brickmaker uses the simple wooden mold of Egypt.*

Our own Southwestern Indians used dried mud for centuries before white men arrived.

When the first explorers cautiously surveyed New Mexico, they found Indians in apartment houses, later called *pueblos* (towns). Their earth-brown walls reflected sunshine so goldenly that the pueblos must have seemed built of the precious metal (page 792). Coronado, lured by such a chimera, sought the "seven golden cities of Cibola" in vain.

Spanish Architecture Wed to Indian

In these days the Indians built without bricks, piling big blocks of mud like wet concrete. Franciscan friars taught them to mold bricks in the Biblical manner, using a straw binder.

The amalgamation of architectural styles, Spanish and Indian, became known as Spanish Pueblo, the inspiration of New Mexico's handsomest buildings. This fashion retains the Spaniards' *rigor*, the heavy wooden beams supporting the ceilings, and the *canales*, rain-spouts jutting from the eaves. Terraced masses and flat roofs copy the Indian mode.

* See, in the NATIONAL GEOGRAPHIC MAGAZINE, "Daily Life in Ancient Egypt," by William C. Hayes (October 1941).



October's Drying Chile Peppers Emboss New Mexico's Adobe Walls with Scarlet

In their process to ripen, the fruiting of the wood, looking for the materials the Spanish people have used in the past. Today the most common remedy is the old man's remedy. Adobe is the best.



School Building, 1880. The building was built by the Board of Education and was the first building of the kind in the city.

The building was built by the Board of Education and was the first building of the kind in the city.

Tommy and his three Biddle in Festivals Blarney. Jack wears his tip short. Every a blackball cap





Young Women in White Wear at the Santa Fe Fair. Styles of 1900 and 1903 Made in the Plaza

The Santa Fe Fair is one of the most important events in the city. It is held every year in the Plaza and attracts thousands of visitors. The fair is a great opportunity to see the latest styles in fashion and to enjoy the many attractions of the fair.

The Children Indulge in Games in Which They Are Unconcerned Performers

In the past, children have been content to play with their own toys, and to make their own games. But now, with the introduction of the new games, the children are no longer content to play with their own toys, and to make their own games. They are now content to play with the toys of others, and to make the games of others.



Chapter Twelve
The Yellow
Section Notes

New York and Connecticut
attracted a large number of
settlers. The state of New
York was the first to
establish a colony. The
first settlers were Dutch
and English. The Dutch
settled in the Hudson River
valley. The English settled
in the Connecticut River
valley. The Dutch and
English settlers were
the first to establish a
colony. The Dutch and
English settlers were the
first to establish a colony.

New York and Connecticut



From Handloom Weavers to an Indian Handicrafts, New Mexico Exploits Its Native Industries

It is no longer a matter of fact that the Indian people of New Mexico are to be found in the same old places as they were a few years ago. The old places are now the domain of the white man, and the Indian people have been driven to the new places. The new places are the Indian reservations, and the Indian people are now to be found there. The Indian people are now to be found in the same old places as they were a few years ago. The old places are now the domain of the white man, and the Indian people have been driven to the new places. The new places are the Indian reservations, and the Indian people are now to be found there.





Aspens' Two, Columns and Pale-gold foliage Entrance Hikers Near Twinning



A Forest Fire With a Flames—Autumn's Shinnecock Cottonwoods North of Troy

The following is a list of the names of the persons who have been appointed to the various positions of the Board of Directors of the City of New York, for the year 1900:

[illegible]



A Mother's House in the Desert Is Seen From the Temple, Near the

Temple of the Sun, at the foot of the mountain, near the city of Petra, Jordan.

Red Man and White Man Who Met Here on the Katchikan in 1847, Join in an Glass to the Eastward





The Sky and Naked Red Earth Compose a Picturesque Spectacle in a Chaco River Canyon

NO. 1. NOV. 11. 1901. THE CHACO RIVER CANYON. THE SKY AND NAKED RED EARTH COMPOSE A PICTURESQUE SPECTACLE IN A CHACO RIVER CANYON.

A Part of Cash Radio Achieved This Valley of Smiles in Chinese on the Spanish Settlement

Some of the boys and girls who are the result of the Spanish Settlement. The children are all of the same age and are all of the same race.





▲ Indians Sell Art on Santa Fe Walks

For Indians, the Santa Fe Walks are a time to sell their art and crafts. The Indians, who are known for their art and crafts, are seen here selling their work to the public.

✧ This Wooden Indian Sells No Cloves

Many people believe that the Indians sell their art and crafts. However, this is not the case. The Indians are seen here selling their work to the public.



A change in architectural taste set in when the American flag ran up over the Governors Palace in 1846. Frontiersmen tried to make Santa Fe look like a Midwest town. Down came adobe; up went frame, brick, and false front; later a counterfeit Greek temple, or bank. Some raw 1890 fronts still mar the Plaza.

A Simple Mud Home May Cost \$1,000

By making use of their own land and labor, Spanish Americans build their small, square adobe homes, some for around \$1,000 if finished without loath.

On the outskirts of Santa Fe every vacant lot seems to be a brickyard.

I watched papa, mama, son, and daughter all engaged in making adobe. The hole which they dug for material became their cellar. In wooden molds they mixed the reddish clay with straw and water, then laid the bricks in the sun to dry. They carried walls in trenches and topped them with vigas. These pine beams they covered with spat cedaristers for paper, and eight inches of dirt.

Weeds and flowers struggled on these dirt roofs. On one I discovered an ants' nest rising in volcano shape.

In the artists' section I admired fine homes, some with broad picture windows, corner fireplaces, and built-in adobe crutches. Across the road stood the hovels of the poor. Mansion and shanty blended harmoniously with the soil from which they came.

Straight adobe has one serious drawback: the dry earth cannot withstand much rain. Every rain turns the plaster to mud and erodes the roof edges. Santa Fe's scanty 14 inches a year are enough to cause trouble.

"Pueblo Indians solve the rain problem by having the women do a replastering job," a Santa Fe architect told me. "But nowadays the maintenance of adobe at prevailing wages does not pay. We architects use a number of substitutes in ceilings, none of them entirely satisfactory. In one method, chicken wire is nailed to mud walls and finished with an adobe-like stucco."

Los Alamos Takes the Atom

From old Santa Fe the Southwestern style has spread 25 miles to the new Federal city, Los Alamos, some of whose modern residences copy the flat-roof adobe style (page 785).

Los Alamos, the Atomic Energy Commission's weapons laboratory and research center, supervises manufacture and assembly of our atomic bombs using U-235 from Oak Ridge, Tennessee, and plutonium from Hanford, Washington, the atom's "powder plants."

This war-born boom town has been called the most important on earth. Its 9,000 residents include many of the Nation's top scientists.

Los Alamos has no graveyard, no unemployment, and no real-estate taxes. For lack of space, the dead are buried elsewhere; the jobless must get out; and Uncle Sam owns all the property.

This Federal city has a civilian manager, Capt. Carroll L. Tyler, who took the job in 1947 after 31 years with the Navy.

During the war, when the military had control, the city was so secret that its very name went unmentioned.

Homesick soldiers dubbed it "The Hud," a name which still lingers.

When Hiroshima was atom-bombed, great was Santa Fe's astonishment to learn that the weapon had been assembled so close by.

Los Alamos (meaning The Indians) was a log-built boys' school in a wilderness until geography pointed out its advantages as the hush-hush capital of a mammoth secret enterprise. Its very isolation was Los Alamos's good fortune.

Enormous Canyons Rim the City

The city, 7,500 feet in the clouds, sits on an hourglass-shaped plateau in the Jemez Mountains. On all but one narrow side it is surrounded by canyons 200 to 300 feet deep, a natural barrier to prying eyes.

The main entrance, the highway from Santa Fe, is locked to everyone but credentials carriers, and the entire city is strongly fenced in. Security police guard the gate and patrol the canyons. Out-of-town visitors find it impossible to "drop in" on their friends without due notice.

Once checked in, I was free to roam the streets unescorted, but, like most other visitors and many residents, I was refused entry to the city's heart, the world's finest physics laboratory, where the most powerful bombs are devised.

I had been in headquarters only a few minutes when an explosion rattled windows, shook desks, and arched my brows into unspoken question marks.

"What you just heard," said a public relations officer, "was an ordinary construction blast. We have many of them."

"Though Los Alamos has assembled all of our atom bombs fired to date, not one has been set off here. Eniwetok is the proving ground."

* See in the NATIONAL GEOGRAPHIC MAGAZINE "Hiroshima Crossroads," 10 pp. in color, April, 1947; "Farewell to Bikini" by Carl Markwith, July, 1946.



Church and Salt Cedar Comfort and Shade Spanish Americans near Chinayo

The church is a small, simple building, built of adobe, with a bell tower. It is situated in a rural area near Chinayo, New Mexico. The large salt cedar tree in the foreground provides shade and comfort for the people gathered there. The people are dressed in traditional Spanish American clothing. The scene is a typical representation of rural life in the region.



Is Talpa Excited! A Tenth of Its People March in This Wedding Procession

The traditional Aztec Marriage and the Marriage of a young man and woman of the old Spanish American race. A wedding is celebrated in Talpa, Mexico, with a large number of guests. The bride and groom are seen in the foreground, surrounded by a large group of people. The background shows a large building and trees.

However, when the procession had reached the church, the bride and groom were not alone. They were surrounded by a large group of people, some of whom were holding bouquets. The bride and groom were seen in the foreground, surrounded by a large group of people. The background shows a large building and trees.

During the ceremony, the bride and groom were surrounded by a large group of people. The bride and groom were seen in the foreground, surrounded by a large group of people. The background shows a large building and trees.

As we have done in our book, which was one of the first to be published, my goal is to provide a high level of accuracy and to provide a high level of accuracy. The book is a high level of accuracy and to provide a high level of accuracy.

The book is a high level of accuracy and to provide a high level of accuracy.

After the ceremony, the bride and groom were surrounded by a large group of people. The bride and groom were seen in the foreground, surrounded by a large group of people. The background shows a large building and trees.

Diapers: Almost High Birth Rate

Readers of this paper will be glad to hear that the birth rate in Talpa, Mexico, is high. The birth rate is high and the birth rate is high.

Every mother who has a child knows that the birth rate is high and the birth rate is high. The birth rate is high and the birth rate is high.

It is one of the great pleasures of life to have a child. The birth rate is high and the birth rate is high.

At the end of the book, I have written the



Greenock Works, Glasgow, Scotland, showing a typical of large and "high" steel works in Scotland.

The photograph shows a typical of large and "high" steel works in Scotland. The building is a large, multi-story structure with a complex roofline, featuring several gables and a central section that appears to be a taller structure. The building is surrounded by a large area of open space, and the sky is filled with thick, billowing smoke from the chimneys. The foreground shows some dark, indistinct shapes, possibly trees or other structures, but they are mostly in shadow and less detailed than the main building.



Princess of Chien, Mary Lake Wash from London, E. C.

The Princess of Chien, Mary Lake Wash, was born in London, E. C. She is a member of the Chien family, which is one of the most prominent families in the world. She is a very beautiful woman, and she is very kind and generous. She is a very good friend to all the people who are in need of help.



Betty Reed, Betty Reed, from London, E. C.

Betty Reed, Betty Reed, was born in London, E. C. She is a member of the Reed family, which is one of the most prominent families in the world. She is a very beautiful woman, and she is very kind and generous. She is a very good friend to all the people who are in need of help.



Hardy Makers on Shaky Ladders Prowl the Ghastly Caves of Aboriginal Cliff Dwellings

A team of men, under the supervision of a Native American, are working on the exterior of a large, rectangular stone structure, likely a cliff dwelling. The men are positioned on wooden ladders, some of which are leaning against the structure. They appear to be applying a substance, possibly paint or plaster, to the wall. The structure has a flat roof and a small, dark opening near the top. The background is a light, textured surface, possibly a hillside or another part of the cliff.



Careworn, Toil marked, She Bears Her Sorrows Secure in a Simple Faith

To the weary wanderer on the beaten trail the Scotch woman seems a figure of mystery and power. Her presence is a comfort and a challenge.

saigre de Cris... from my window. Winter's snow in the distance is a dense white than lechid.

In summer it is the blinding heat of the fresh rain on the brown earth. The air is heavy and stifling.

"I don't want to go to Santa Fe any time or place," said her husband. "We can't feel shut in. We have become loners, therefore. Name your hobby—chess, bridge, camera, ski, or world federation—we have a club to put it, 72 hours."

"What about the...?" I asked. "We have no complaint," Mrs. ... answered. "Our Indian maid cheerfully washes and dresses me."

... Indians are on the... laborers, or maids. A few well-to-do travelers, with archaeologists, engineers, or research assistants.

Evening the Indians... caravan of... traders, and luxury cars clogging the main...

The Indians Dance Their Prayers

... her... she goes home... her tribal...

... we can... the... and...

pression, they have been dancing ever since.

Though many Indians devoutly accept the white man's god, they preserve the civilization of their ancestors.

This ancient faith sustains a pride in race, purity of blood, and a noticeable independence.

Scarcely a week goes by that some pueblo does not celebrate a Circle Dance or other festival with elaborate costume and ritual. The dancers decorate their bodies with feathers or skins to resemble birds or beasts (page 822). They paint or mask their faces and they chant the sacred words of ancient supplications. They dance to bring the rain and ensure a thanksgiving for the harvest. Women dance barefoot to absorb fertility from Mother Earth (pages 815 and 817).

Lo, the Poor, Pestered Indian!

On some festival days the pueblos keep open house. White visitors pour in, parking in the wrong places, understanding almost nothing. Whatever the beleaguered Indian thinks, he conceals his feelings beneath a baffling mask of politeness.

To a few initiated spectators the Indian dance conveys the meaning of a hymn to Nature and her changing seasons. It gives a glimpse into their own ancestors' pre-Christian rituals.

As one of the uninitiated throng, I watched the Tesuques executing a borrowed Comanche war dance.

A sizable crowd was drinking a concessionaire's bottled soda when the dancers emerged from a kiva with zigzag steps. Braves wore feather bonnets and jingling sleigh bells. Wives and children danced with them. Oldsters drummed and chanted secret words. For fear that I might reveal some recondite word, the Tesuques forbade me to take notes.

Our attention was fastened on a dancer who had painted his body a ferocious green on one side, a barbaric yellow on the other.

"Look!" exclaimed the woman beside me.

Even his face is painted. That reminds me; I think the Federal tax on cosmetics is unfair to women."

At the sight of the war make-up, visiting playface boys were all eyes. These playtime cowboys, who in fun had made many a redskin bite the dust, were well behaved, even toward little Tesuque girls with bobbed hair and shoe-button eyes.

Some dancers are accomplished clowns, and I was informed that the Tesuques, giggling and howling, have tutlesqued their visitors by dancing beneath umbrellas and floral wigs.

Just outside Santa Clara Pueblo I met the happy English bride of an Indian war veteran.

Mother of two half-Indian children, she said.

"I did much better than I expected. I thought I'd be living in a wigwam, but here I share a duplex adobe apartment. I have a washing machine, vacuum cleaner, electric refrigerator, and automobile—things I wouldn't have had at home. No, you couldn't drag me back to Liverpool."

Old Indian Caves a Fantastic Sight

Though most of the Indians live beside the Rio Grande, their ancestral homes lie in such isolated places as the Jemez Mountains.

Driving into the Pajarito Plateau one day, I saw hundreds of long-abandoned Indian caves puncturing the cliffs. In their dream-like setting these caves suggested galleries of bees' nests or the embrasures of a Titans' fortification.

Eons ago the plateau was colored by the outpourings of a giant volcano. Tiny streams, etching deep canyons in the ash, laid bare walls of sunset pink and sepulchral white.

I tested the white ash in my hands; it crumbled like cheap concrete. Rain had carved it into wigwam shapes and pockmarked it like a Swiss cheese.

Primitive cave men found this soft material easy to work and the cliffs easy to defend. The first settlers dug holes into the bluff, entered them by ladders, and in times of danger drew the ladders up after them.

Later they quarried soft blocks of tuff and lined the cliff with houses, using the caves as back rooms. As their numbers increased, they built an apartment house with at least 300 rooms on the ground floor. This house long ago collapsed into rubble.

Scientists Restore the Scene

Archaeologists, digging through the tumbled houses and scattered pottery, have reconstructed the bones of this old civilization, in a forested canyon called Bandelier National Monument (page 812).

Here migrating pueblo folk settled centuries ago to take advantage of cliff defenses and running water. Río de los Frijoles trickled through their valley. Using its waters, the Indians irrigated corn, squash and beans. They domesticated dogs and turkeys. In caves, the women wove cotton cloth; you may still see the marks of their looms.

Our party explored smoke-blackened caves, gazed at fading cliffside pictographs, climbed ladders into reconstructed houses, and toured the crumbled apartment house.

Feet dusty and aching, we waited in cool Frijoles Creek. Tall pines and cottonwoods



Rain Dance. Erecting the Sacred Wand, Prayers for Showers, Dark Clouds Secret the Answer
 (The illustration is from the "Rain Dance" section of the "Rain Dance" book, published by the
 U. S. Government Printing Office, Washington, D. C., 1890.)

A Spanish Church's
Stone Remains
near the Pye

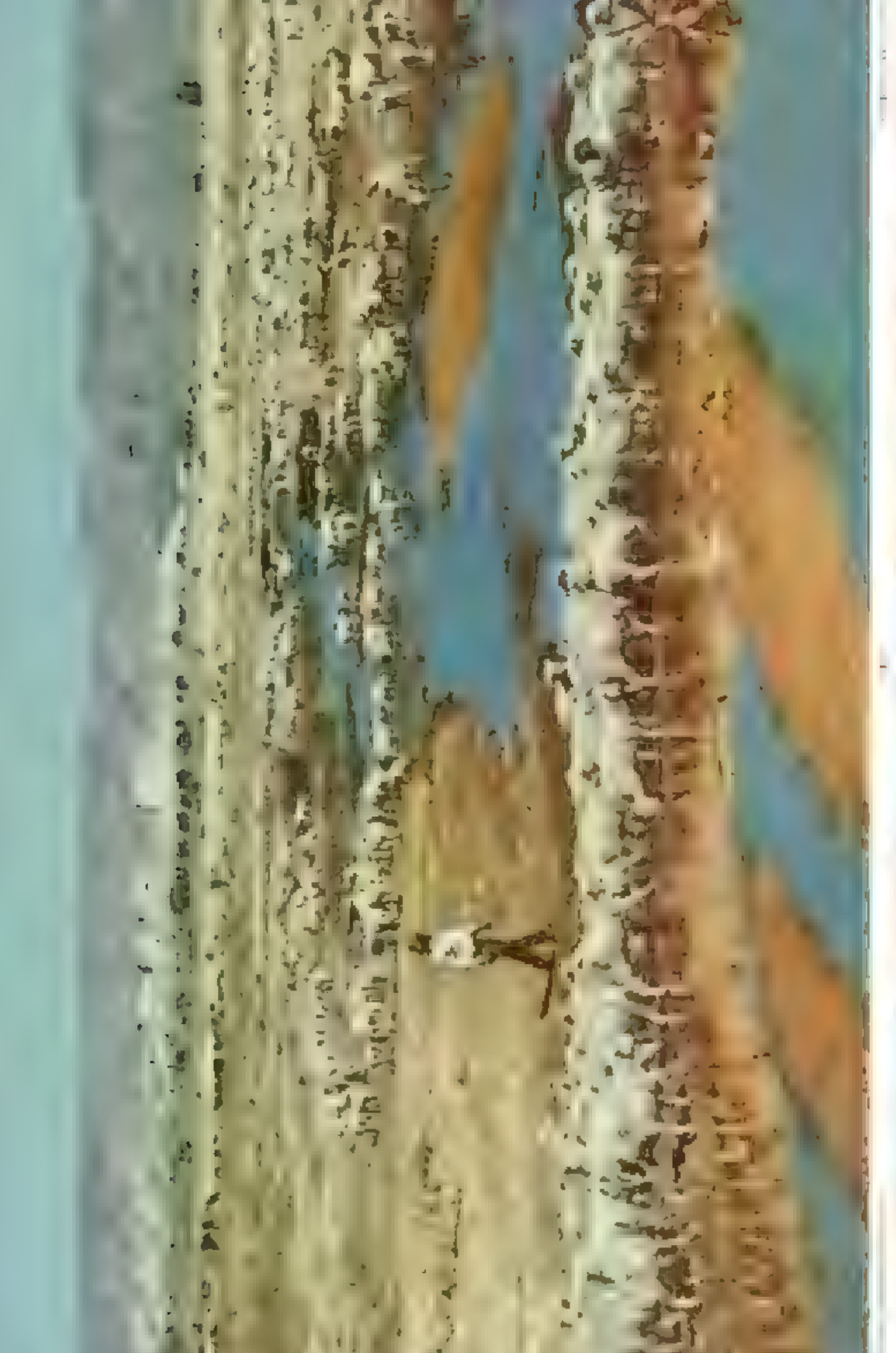
It is a small, simple, and
unassuming building, but
it is a fine specimen of
the architecture of the
time. The walls are
made of stone, and the
roof is of tile. The
interior is simple and
unadorned, but the
altar is a fine specimen
of the work of the
time. The church is
now a ruin, but it is
a fine specimen of the
architecture of the
time.



San Francisco, Calif. Date of Celebration June 1st. The Picture Shows the People of the

City of San Francisco, Calif. Date of Celebration June 1st. The Picture Shows the People of the





1. The first part of the document discusses the importance of maintaining accurate records of all transactions and the role of the accounting system in providing reliable financial information.

2. The second part of the document describes the various methods used to collect and analyze data, including surveys, interviews, and focus groups.

3. The third part of the document presents the results of the study, showing that there is a significant correlation between the use of accounting systems and the accuracy of financial reporting.

4. The fourth part of the document discusses the implications of the findings for future research and practice, suggesting that further studies should be conducted to explore the factors that influence the effectiveness of accounting systems.

5. The fifth part of the document provides a conclusion and a list of references.

As Cloud Shadows Improve the Scene, Mounier Moves His Red Stock Down a Pleasant Yellow Road

At last, on this beautiful day, our party can begin to enjoy the view. The clouds are beginning to clear away, and the sun is shining brightly. The road is very good, and the scenery is very beautiful. We are all very happy, and we are all enjoying the ride very much.





For the good coffee. The people in the foreground are the people of the village. The people in the background are the people of the village.

The people in the foreground are the people of the village. The people in the background are the people of the village.

Barbara and her father celebrating the birth of her first child, a boy, in 1941. Barbara is wearing a green dress and a red hat. Her father is wearing a white shirt and a dark tie. They are standing in front of a wooden fence.





Painted Teenage Warrior, Billy Ingles, Peshawar, Prince of Wales, Pacific

shaded us; four-o'clocks bloomed wild all around. Birds sang; the brook murmured.

"What a perfect spot," we mused. "Why should anyone leave?"

By the year 1600 the cliff dwellers had deserted their homes and retreated to the Rio Grande, where water always ran. Did they suffer disease, soil depletion, famine, drought, or invasion? No one is sure of the cause, but drought and raids were certainties. Nomadic enemies, who reaped crops with bows and arrows, plundered the pueblos for warehouse grain.

Medieval Spain Survives in the Hills

Leaving the Indian country, I toured remote Spanish-American villages at the foot of the Sangre de Cristo Mountains. I drove through Pecos, Trampas, Truchas, and Cordova, each as Spanish as its idling name. Grandmothers wore black shawls greening with age. Anglo-Americans were nowhere in sight. Nothing had changed, I imagined, in the last 200 years.

At harvest time herds of threshing goats trample grain from chaff, and in some villages scarlet strands of chili peppers garland outer walls (page 791).

Each community irrigates its green valley, damming a mountain stream with brushwood barricades. Between these valleys the wilderness has unbroken. Difficult trails left the towns isolated for centuries (page 810).

Even today a New Mexico guidebook describes the Trampas-Truchas road as "dangerous . . . safer as a pack trail."

Not yet having read the guide, I undertook the trip with no misgivings. Soon I found my automobile roller-coasting along a dirt-top sky line drive built across the summit of a ridge. There was width for one car.

Not a rival motorist, but a hundred goats compelled me to stop in the midst of nowhere while the herd's three canine guardians attacked my car savagely.

In Chama, which knew the boom centuries ago (pages 789, 805), I found the weaving art still flourishing. Every other family seemed to have its hand loom.

Santos: New Mexico's Primitive Art

Here I visited El Santuario, a chapel noted for its Santo Niño (Holy Child), to whom farm families look for bountiful crops (page 816). Clanking prayers for rain, they parade the figure through dry fields by night.

Childless wives make pilgrimages to El Niño. By custom, the woman whose prayer is answered crosses the statue in a new pair of slippers, taking the older pair for her own

child. I saw the infant Jesus attired in baby shoes. Beside him stood a larger Cristo in men's coarse cotton socks and moccasins.

Within recent years remote Spanish villages have witnessed a collectors' hunt for those carved and painted saints which here are called *santos* (page 801).

Santos grew out of the pious Spanish colonists' need for religious statues at the end of the 18th century when Spain and Mexico ceased transporting new ones across seas and deserts. In those days *santeros*, or saint makers, wandered from village to village, each with his buttload of images.

As the *santeros* lost touch with conventional church art, their primitive carvings took on the naive look of children's art creations. Sometimes grotesque, often out of proportion, they were nonetheless intensely human. Santos grip the imagination, compel attention.

Such statues are made no longer. The native art perished when the American occupation opened the gates to machine-made substitutes.

Today the old figures fetch fancy prices. I saw one Joseph, with the Child perched on his shepherd's crook, whose owner reported she had refused a \$1,000 offer.

In one collection I inspected a crucified San Ancho, a Christian martyr in Roman times, carved with beard, mustache, and black hat to resemble a Spanish soldier of the 19th century. Another crucified figure had a wound for piercing with a spear. A third exposed a throbbing heart operated by a string. Other *santos* had flexible arms so they might be taken off their crosses and laid in coffins.

The Death Cart, Made by Penitentes

Pride of the collection was a large carving called the Death Cart. In it rode a yellow-winged, glass-eyed Death represented as a grisly rather (page 828).

With sly, cruel mouth, decayed nose, unkempt hair, and head too tiny for the body, this figure was utterly frightening.

Death's bow and arrow, replacing the conventional scythe, seemed custom-made for the Indian country, where no pioneer knew when an arrow might seek his life.

The cart was a creation of the Penitentes, a Spanish-American lay brotherhood, of whom many eerie tales are told.

During the Easter ritual, when Christ was in His tomb and Death triumphant, the Penitentes cragged the cart, with ropes slung over shoulders, to a place of penance they called Calvary.

Every Penitente village has its secret meeting place, like the *kiva*; this is called the

morada. In such a chapel the *Cart* is kept.

During Lent the *Penitentes*, like Christ, bear heavy crosses uphill. They lie on thorns. Dressed in white shorts and black hoods, they flag themselves across bare backs with yucca whips.

"The blows sounded like the thud of a medicine ball thrown from belly to belly in a gymnasium," said one eyewitness who had spied upon a ceremonial.

"That time saved," he continued, "that *Penitentes* used to nail men to the cross. Whether nails were used or not, I did see a volunteer tied to a cross. He stood his martyrdom until he fainted."

Penitentes are a living counterpart of the *santos*. For lack of new statues, they created their own. For lack of priests, the unlettered mountain folk strayed into practices as primitive and realistic as their own *santos*. Though these men were extremely devout, intending no harm, the Church years later felt it necessary to denounce their practices as offensive.

Padre Traces Ancestors Back to Spain

To learn the history of the Spanish Americans, I talked to one of their race, Franciscan Father Angelico Chavez. As an unofficial archivist at St. Francis Cathedral, he was translating yellowed Spanish documents, throwing new light on Church and State history (page 830). His research has upset previous theories on the origins of La *Conquistadora* and the *Penitentes*. I have used his versions.

By exploring the pioneers' records, Father Chavez has traced step by step his paternal and maternal ancestors to 16th-century Spain.

"If I told you all my forebears were illustrious," he said, "you would not believe me; so I shall admit I have discovered some scoundrels."

"Anglo-American visitors," the padre continued, "like me look at our faces and instinctively label us Mexicans. Many of us resent the description unreasonably, ignorant of the fact that true Mexican culture has been superior to ours. Yet, apart from this fact, we are right in not considering ourselves Mexicans, since we lack the national outlook of the great country to the south. Actually, we were Mexicans for only a few years in our history, from 1821 to 1846, and had nothing to do with the revolt against Spain."

"New Mexico was a ways an isolated outpost. Supposing the United States had never taken over, we would be an island of 17th-century Spain."

"In the beginning the Spanish Crown granted immense tracts in New Mexico to the

aristocrats. These men, owning everything in sight, were called *ricos* (rich men). They built great adobe ranch houses and lived like feudal barons. All their work was done by their followers, who tilled the soil like peons and possessed nothing but their debts."

Gone Are the Aristocrats' Mansions

"But times and empires changed. In 1821 Mexican rule succeeded Spanish; in 1846 the United States took over. Feudalism perished, at least in name."

"Today the *ricos'* mansions are gone; scarcely an adobe is left. Their limitless lands became so divided and subdivided that fence rows appeared to occupy half the cultivated fields. But new *ricos* have replaced the old. Since 1846 Anglo-Americans with money and know-how have been buying up the land. Native New Mexicans, with a few exceptions, are losing their ancient inheritance."

"Some of our leading families, it is true, descend from the *ricos*, and some directly from the *Conquistadors*. Even among the common folk you may observe blond heads and blue eyes, red hair and freckles. These are a heritage from the Celtic part of Spain, and the legacy of some itinerant Irishman."

"All of us centuries ago lost touch with our cousins in the Old World. So Americanized are our young people that they speak English among themselves, using Spanish only in the presence of their parents."

"Our Spanish idiom remains so antique that I have no trouble reading the pioneer documents. Appalachian hill folk preserving Elizabethan vocabularies are your English-language counterparts."

The "Anglo" and How He Dresses

The Anglo-American, New Mexico's third population element, takes pride in carrying on no neighborhood feuds with Indian or Spanish American. Born, more than likely, somewhere else, he has learned to love New Mexico's leisurely way of life.

A Spanish-costumed waitress from New York told me, "Wild horses couldn't drag me back to the hot subways, the shopping malls—"

"Life is so terribly simple out here," said a former Indian woman. "One doesn't have to own a wardrobe full of the latest styles."

The Hostler said it! Anything goes.

I sat in a Santa Fe hostelry watching the life go by.

A woman in barter-pole sweater stride in with slacks at half-mast. No one blinked.

Then a blonde in high Spanish comb strolled by, tucked up a long black lace skirt, rolled



At Last! A Movie That Lets You Know the Answer. Arent They Wonderful?

[illegible][illegible]

The authors are grateful to the referees for their valuable comments and suggestions. The authors also thank the anonymous referees for their constructive comments and suggestions. The authors also thank the anonymous referees for their constructive comments and suggestions.

As a result, the following three conditions must be satisfied:

- (1) The number of nodes in the network must be large enough to ensure that the network is self-sustaining.
- (2) The network must be able to handle a large number of nodes.
- (3) The network must be able to handle a large number of nodes.

Tolson said that reported statements that the FBI would be dropping charges against Angelo and his brother, James, were "incomplete and possibly untrue." He said the Angelo case would probably be reviewed "thoroughly."

As a result, the number of people who are not in the labor force has increased. This is a problem because it means that there are fewer people who are able to contribute to the economy. The government should take steps to encourage more people to enter the labor force.

There is a lot of talk about the importance of staying on top of your credit. The reality is that it's not just about your credit score, but also about your credit history. If you have a good credit history, you'll be able to get better interest rates on loans and credit cards. If you have a bad credit history, you'll be able to get better interest rates on loans and credit cards.

THE NEW YORK PUBLIC LIBRARY

Examples of such jobs that have been found to be more likely to be performed by women than men are: clerical work, bookkeeping, telephone work, and sales work. Examples of jobs that have been found to be more likely to be performed by men than women are: construction work, heavy manufacturing, and transportation work.

[illegible][illegible]



Spanish Children in Tulpa Are as American as Ice Cream and as Sweet as Candy

'Emotions have wrought a great improvement in the Spanish-American "rough," pioneer artist Bert Phillips has declared. "Scowpy faces and dirty clothes—these I have left behind me. Better features, better clothes, the race is becoming better. The children are American. You cannot tell a Spanish girl in Toluca from one in New Mexico but for the color of her hair."

but in Little Texas they have voted several counties red. But don't mistake me," he apologized, learning I was a former Texan, "we love the Texans; they bring us lots of business."

As if in reply to these glib Texanisms, peering in Red River and hanging resort go together each July 4 and defiantly sing "The Eyes of Texas."

No Bullfight—This Is Not Mexico

Complicating interstate relations still further, an occasional tenderfoot easterner flounders into the picture with some amazing misapprehensions. Having driven west with the aid of maps presumably less antique than the Spanish charts, he is astonished to learn that New Mexico is *not* a part of old Mexico. A New York-born storekeeper in Santa Fe gave me these quotations:

"He sure to give me my change in Ameri-

can money. I don't want Mexican money."

"Where do you learn English? I thought everybody here spoke Spanish."

"How much duty will I have to pay to ship this package back to the U. S. A.?"

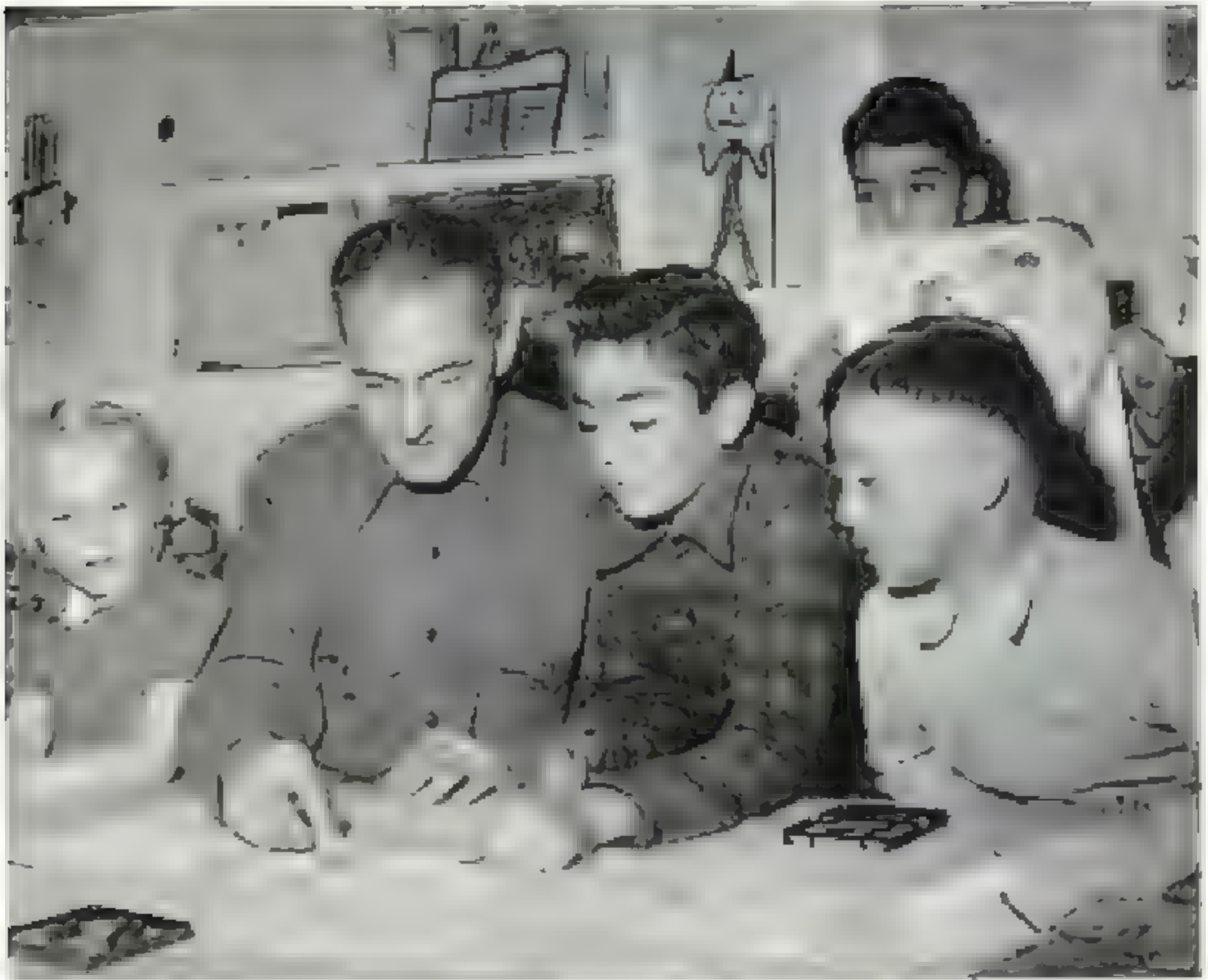
"Do the Indians go on the warpath any more?"

"When do you hold the bullfights again?"

The first thing many a visitor does upon arrival is to buy a pair of cowboy boots. His second act is to mark the golf course with his new high heels.

Curio stores tempt travelers with beaded Indian vests, cradleboards, polished petrified wood, corn-kernel necklaces, and decorated muffled hides.

Chinaman blankets, woolen ties, and some Indian jewelry offer substantial values (pages 789 and 797). But what does a Bostonian do with his coiled rattlesnake ashtray, or his wife with her 50-gallon Mexican hat?



Texas Children, Growing Up in a Painters' World, Carry On an Art Class of Their Own

Joel Berkman conducts the Saturday afternoon session at Harwood Foundation, an art gallery, library and community center. His 60 Anglo-American, Spanish and Indian pupils illustrate Indian legends. "Rain gods" and "my dear mothers" never lose their interest. They draw mustaches for one face black and others. "These children are so eager to learn," says the teacher, "that we have no disciplinary problems."

A more valuable souvenir, in my opinion, is a trip into the timbered high country where irrigation waters gather. Large sections here are guarded as national forests.

Thousands of lumbermen, stockmen, and farmers depend on these forests for a living. Natural reservoirs, they impound winter snow for summer irrigation.

Louis F. Cottam, supervisor of Carson National Forest, took me driving through his forest domain. Crossing passes nearly 12,000 feet high, we looked up at snow peaks.

No billboards marred the lovely vista. In an aspen wilderness far removed from city traffic we came across a sign reading, "All day parking, 50 cents." What appeared to be a road turned out to be a landowner's bid to motorists to camp on his trout stream.

Our road led through ghostly Elizabethtown, a mining gold camp in the 1800's and '70's. "E-town" had seven saloons and three

dance halls, but no restaurant. George Place, a mining name on an old false front, survives as a museum.

We found Elmore Brown's first and only jail, a roadside ruin. *Elmore*, a dredge which secured \$100,000 in gold in its first year had sunk in its own silt. Gravel, ever so once staked and claimed, scared the law. Only a handful of people, mostly newcomers, were left in a town which once claimed 3,000.

Gold fever had marked stretches of road with miles-long dunes and with canyon trails so steep that descending ore wagons used to drag huge logs as brakes.

Gone were old-time bearded gold seekers and their shuffling burros. In their place we saw keen young men in station wagons hunting radioactive minerals with Geiger counters.

Farther on, my guide pointed out a new fence whose green aspen posts had been gnawed by ram builders. Braver, once trap



Death in Trampas Holds Not Scythe but Bow; She's a Lady

Remote Trampas (Trampane Trap) is a center of the Pequot, who Indian. The woman in the photograph is known as the "Lady of the Forest." This carved wooden fish-shaped object is known as the "Lady of the Forest." These boys get the fish-shaped object from the forest.

red almost to extinction, were coming back.

Here and there livestock nibbled at the mountain grass. On some overgrazed private lands, we observed, grass had died, and had disappeared, trees had toppled, and land had gullied. Rains ran down such eroded slopes like water off tin roofs.

A Fisherman's Dream—1,000,000 Trout

Protected lands were lush with grass and deep in humus. Root systems held water the year round.

"We in the Forest Service," my friend observed, "say this land is more important for

watershed purposes than for grazing. Since we desire to utilize its timber, however, we recognize that the forest is an economic asset."

Next to timber, trout. Trout never stays off the market because it is protected by the national forest during early life against improper exploitation. As that tree matures we mark it for cutting; and a contractor working through the woods in a 20-year cycle, crops it. Like a farmer, who throws a fish-size trout back into a stream, he allows young trees to grow.

By avoiding reckless cutting, we create no ugly vistas of stumps and eroded soil. The thinning-out method allows replanting unobstructed.

In all, inaccessible areas are left tall and cool for trout. The work of the forest service is to protect and fortify the watershed.

Visiting Red River State Fish Hatchery, we saw a million trout, ranging from 20-inch speckled beauties to half-inch fry. Frogs and bass were stocked with wildling

trout. All trout are stocked with vitamins, which is absorbed as food. Outdoors, 90 percent survive; indoors, larger fish.

I took a walk into one of the ponds. Roy Barker, the hatchery manager, was there instantly. When Barker came out, you can see a solid wall of heaping fish.

We finished our tour at 5 p. m. on the morning of Saturday.

Till then, the hatchery was a busy place. Barker, I said, what is the best way to end recreation?

Several of his helpers had dropped their tools, grabbed rods, and set out down a near-by

Sheep Airlift in New Guinea



A New Guinea Highlander, Headdressed in knitted Hark-Chandi His Future Wool Suit

His people, the Hark-Chandi, live in the mountains of New Guinea, and are known for their skill in weaving. They have been weaving for centuries, and their traditional Hark-Chandi is a masterpiece of textile art. The Hark-Chandi is a long, narrow, and very thin shawl, made of wool, and is worn by both men and women. It is a symbol of status and wealth, and is often worn by the Hark-Chandi during important ceremonies.

The Hark-Chandi is a traditional garment of the Hark-Chandi people, who live in the mountains of New Guinea. It is a long, narrow, and very thin shawl, made of wool, and is worn by both men and women. It is a symbol of status and wealth, and is often worn by the Hark-Chandi during important ceremonies. The Hark-Chandi is a traditional garment of the Hark-Chandi people, who live in the mountains of New Guinea. It is a long, narrow, and very thin shawl, made of wool, and is worn by both men and women. It is a symbol of status and wealth, and is often worn by the Hark-Chandi during important ceremonies.

The Hark-Chandi is a traditional garment of the Hark-Chandi people, who live in the mountains of New Guinea. It is a long, narrow, and very thin shawl, made of wool, and is worn by both men and women. It is a symbol of status and wealth, and is often worn by the Hark-Chandi during important ceremonies.

The Hark-Chandi is a traditional garment of the Hark-Chandi people, who live in the mountains of New Guinea. It is a long, narrow, and very thin shawl, made of wool, and is worn by both men and women. It is a symbol of status and wealth, and is often worn by the Hark-Chandi during important ceremonies.

The Hark-Chandi is a traditional garment of the Hark-Chandi people, who live in the mountains of New Guinea. It is a long, narrow, and very thin shawl, made of wool, and is worn by both men and women. It is a symbol of status and wealth, and is often worn by the Hark-Chandi during important ceremonies.

The Hark-Chandi is a traditional garment of the Hark-Chandi people, who live in the mountains of New Guinea. It is a long, narrow, and very thin shawl, made of wool, and is worn by both men and women. It is a symbol of status and wealth, and is often worn by the Hark-Chandi during important ceremonies.



Black Arrow Men Watch a Plane Roll In with Sheep for Their Empty Livestock

Black Arrow men, who are known for their skill in the use of the bow and arrow, are seen in the foreground of the photograph. They are dressed in traditional clothing, and their expressions are of interest and anticipation. The huts in the background are simple and functional, typical of the region.

The men are gathered in a clearing, and their attention is focused on the plane that is approaching. The plane is a large, multi-engine aircraft, and it is carrying a large number of sheep. The men are watching the plane with a mix of curiosity and concern.

The plane is a large, multi-engine aircraft, and it is carrying a large number of sheep. The men are watching the plane with a mix of curiosity and concern. The plane is a large, multi-engine aircraft, and it is carrying a large number of sheep.

The plane is a large, multi-engine aircraft, and it is carrying a large number of sheep. The men are watching the plane with a mix of curiosity and concern.



Planting 'kicking' Sheep Fod a 2008 Creek Flood from Australia Belies Up

From Water Valley, a small town in the north-west of Australia, a group of people, including children, are seen standing on a wooden structure, possibly a bridge or a walkway, over a body of water. The structure is made of vertical wooden posts and horizontal beams. The background shows a body of water and some distant land.

When a river rises, it can be a problem. In some cases, it can be a problem for the people who live in the area. In some cases, it can be a problem for the people who live in the area. In some cases, it can be a problem for the people who live in the area.

Some people have been known to plant 'kicking' Sheep Fod a 2008 Creek Flood from Australia Belies Up. In some cases, it can be a problem for the people who live in the area.



Walden Valley Clocks in Bohemian Bird-Paradise Paintings Weave a Benevolent

It is a happy coincidence that the Bohemian Bird-Paradise Paintings, which are now on display in the Walden Valley Clocks, are also the work of the same artist. The artist, who is a well-known painter and sculptor, has been working in the Bohemian Bird-Paradise for many years. He has created a beautiful world of birds and flowers, which is now being shown in the Walden Valley Clocks.

A Mr. [Name] of the New York [Name] has been working in the Bohemian Bird-Paradise for many years. He has created a beautiful world of birds and flowers, which is now being shown in the Walden Valley Clocks.

A Mr. [Name] of the New York [Name] has been working in the Bohemian Bird-Paradise for many years. He has created a beautiful world of birds and flowers, which is now being shown in the Walden Valley Clocks.



A Detailed Parental Appraisal Sheet from Project Head Start, If a Subsequent

If $\mathcal{A} = \{A_1, \dots, A_n\}$ is a family of n subsets of X , then the Δ_2 -closure of \mathcal{A} is the family $\Delta_2(\mathcal{A})$ of all subsets of X that can be obtained from \mathcal{A} by repeatedly applying the following operation: if $A, B \in \mathcal{A}$ and $A \cap B \neq \emptyset$, then $A \cup B \in \Delta_2(\mathcal{A})$. The Δ_2 -closure of \mathcal{A} is denoted by $\Delta_2(\mathcal{A})$.

8. 1990年12月，在《中国环境报》上，刊登了“中国环境状况令人堪忧”的标题，并附有“中国环境状况令人堪忧”的副标题。

It is important to note that the above results are based on the assumption that the system is in a steady state. In practice, the system may be in a transient state, and the results may be different. However, the above results provide a good approximation for the steady state behavior of the system.

The *Journal of the American Statistical Association* (1994) Vol. 89, No. 428, pp. 1039-1044, contains a paper by J. H. J. van der Vaart and P. J. R. van der Vaart, "On the asymptotic normality of the maximum likelihood estimator of the parameters of a mixture model." The paper is a contribution to the theory of maximum likelihood estimation in the context of mixture models. The authors show that the maximum likelihood estimator is asymptotically normal under certain conditions. The paper is a technical contribution to the theory of maximum likelihood estimation.

[illegible]

Figure 1. A schematic diagram of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group received a standard training program, while the experimental group received a modified training program. The results of the training program were compared between the two groups.

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $t \rightarrow \infty$. It is shown that the solutions of the system (1) are bounded and tend to zero as $t \rightarrow \infty$.

The authors are grateful to the National Natural Science Foundation of China (Grant No. 40274001) and the National Natural Science Foundation of China (Grant No. 40274001) for their financial support.

Yours sincerely,

[illegible]



A Passenger Train Crossing the Wood County Bridge, Pullman, Across Kootenai Gorge. The locomotive is emitting a large plume of white steam. The bridge is a simple wooden trestle. The background shows a dense forest of trees. The foreground is a grassy bank with some small plants.



An Lager Army of Brand-new Shepherds with Leafy-branch Crooks Drives the Fresh Horns
A side of the flock on the 1st day of the year. The men are all new, but the flock is old. The sheep are
A flock of sheep on the 1st day of the year. The men are all new, but the flock is old. The sheep are



Charting Drummers Advance to Welcome While Men Shell New Places and Painted Faces I was Friendly Seals in Seemingly Snowy
The men had a hard time of it to do so and were very tired when they came back.

Between Wines of A. & B. & C., the Pattern of Topic Is Hides
At the same time, in A. & B. & C., the Pattern of Topic Is Hides



At the same time, in A. & B. & C., the Pattern of Topic Is Hides
At the same time, in A. & B. & C., the Pattern of Topic Is Hides





12

ST. LOUIS, MO.

Baby Susan Blood Cries and Giggles: No Reaction Can Make a Face to Scare Her

She is a beautiful New Englander, Susan Blood, who is now the only child of a family of five. She is a beautiful girl, with the most beautiful face, and she is a very sweet and gentle child.

She is a very sweet and gentle child, and she is a very beautiful girl. She is a very sweet and gentle child, and she is a very beautiful girl.

When she is a year old, she is a very beautiful girl. She is a very sweet and gentle child, and she is a very beautiful girl.

When she is a year old, she is a very beautiful girl. She is a very sweet and gentle child, and she is a very beautiful girl.

When she is a year old, she is a very beautiful girl. She is a very sweet and gentle child, and she is a very beautiful girl.



A Pitharch Dies Dead Circular, Mourns Sorrow the Air with Anguish'd Wails

[illegible]

Whether the two cases are considered separately or together, the results are consistent with the hypothesis that the two cases are related.

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$

Don't let the *Journal of Management Education* slip from your hands. For more information, visit www.jme.sagepub.com.

[illegible]

2. The second part of the paper is devoted to the study of the asymptotic behavior of the solutions of the problem (1)–(3) as $\varepsilon \rightarrow 0$. In this case, the asymptotic expansion of the solution is obtained in the form of a series in powers of ε . The leading term of this expansion is the solution of the problem (1)–(3) with $\varepsilon = 0$. The higher-order terms of the expansion are determined by the solutions of the problems (1)–(3) with $\varepsilon = 0$ and $\varepsilon = 1$. The asymptotic expansion of the solution is obtained in the form of a series in powers of ε . The leading term of this expansion is the solution of the problem (1)–(3) with $\varepsilon = 0$. The higher-order terms of the expansion are determined by the solutions of the problems (1)–(3) with $\varepsilon = 0$ and $\varepsilon = 1$.

$$f_{\alpha} = \sum_{i=1}^n \lambda_i f_i, \quad \lambda_i \geq 0, \quad \sum_{i=1}^n \lambda_i = 1, \quad \lambda_i = 0 \text{ if } f_i \notin \mathcal{F}_{\alpha}.$$

1. *Principles of Mathematics*, by David Hilbert, 1903, in *Collected Works of David Hilbert*, Vol. 1, pp. 175–239.

It is important to note that the above results are based on the assumption that the system is in a steady state. In reality, the system may be in a transient state, and the results may differ. Further research is needed to investigate the effects of transient states on the system's behavior.

[illegible]

Δ — the difference between the maximum and minimum values of the function f on the interval $[a, b]$;

[illegible]

Ballroom Dances Given at U.S. Club, Sept. 10, 1934

For the purpose of this study, the authors used the following criteria to select the articles: (1) the article had to be published in English; (2) the article had to be published in a peer-reviewed journal; (3) the article had to be published in the last 10 years (2004-2014); (4) the article had to be available in full text; (5) the article had to be relevant to the study; and (6) the article had to be published in a journal that was indexed in the PsycINFO database.

[illegible]

The following table shows the results of the regression analysis for the dependent variable "Number of children in the household" (N = 1,000). The independent variables are "Age of the head of household" and "Gender of the head of household". The table includes the coefficient estimates, standard errors, t-statistics, and p-values for each variable.

Variable	Coefficient	Standard Error	t-statistic	p-value
Age of the head of household	0.05	0.02	2.50	0.01
Gender of the head of household (Male = 1, Female = 0)	-0.10	0.03	-3.33	0.00
Constant	1.50	0.10	15.00	0.00

The regression results indicate that the number of children in the household is positively related to the age of the head of household and negatively related to the gender of the head of household. Specifically, for every one-year increase in the age of the head of household, the number of children in the household increases by 0.05, holding all other variables constant. Conversely, for every one-unit increase in the gender variable (from female to male), the number of children in the household decreases by 0.10, holding all other variables constant.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

"West" & "East" Brother
 Richard E. Smith, Jr.

When the α and β components of the \mathbf{W}_i are correlated, the \mathbf{W}_i are said to be correlated. The \mathbf{W}_i are said to be uncorrelated if the α and β components are uncorrelated. The \mathbf{W}_i are said to be independent if the α and β components are independent. The \mathbf{W}_i are said to be dependent if the α and β components are dependent.

[illegible]

When the α and β components of the \mathbf{E} field are taken into account, the \mathbf{E} field is no longer parallel to the \mathbf{B} field. The \mathbf{E} field is now parallel to the \mathbf{B} field only in the case of a uniform magnetic field. In the case of a non-uniform magnetic field, the \mathbf{E} field is parallel to the \mathbf{B} field only in the case of a uniform magnetic field. In the case of a non-uniform magnetic field, the \mathbf{E} field is parallel to the \mathbf{B} field only in the case of a uniform magnetic field.

[illegible]



and

Feared, Shell-shocked Dances Soule as the Prospect of Fleece-Woolen Garments

For the first time in the history of the world, the prospect of fleece-woolen garments has been a source of fear to the Indians of the Northwest.

The reason is that the Indians have been told that the prospect of fleece-woolen garments is a source of fear to the Indians of the Northwest.

The reason is that the Indians have been told that the prospect of fleece-woolen garments is a source of fear to the Indians of the Northwest.

The reason is that the Indians have been told that the prospect of fleece-woolen garments is a source of fear to the Indians of the Northwest.

The reason is that the Indians have been told that the prospect of fleece-woolen garments is a source of fear to the Indians of the Northwest.

The reason is that the Indians have been told that the prospect of fleece-woolen garments is a source of fear to the Indians of the Northwest.

The reason is that the Indians have been told that the prospect of fleece-woolen garments is a source of fear to the Indians of the Northwest.

The reason is that the Indians have been told that the prospect of fleece-woolen garments is a source of fear to the Indians of the Northwest.

The reason is that the Indians have been told that the prospect of fleece-woolen garments is a source of fear to the Indians of the Northwest.

The reason is that the Indians have been told that the prospect of fleece-woolen garments is a source of fear to the Indians of the Northwest.

The reason is that the Indians have been told that the prospect of fleece-woolen garments is a source of fear to the Indians of the Northwest.

The reason is that the Indians have been told that the prospect of fleece-woolen garments is a source of fear to the Indians of the Northwest.

The Society's New Map of Classical Lands

MULTIPLE uses and purposes are effectively combined in the new 10-color map of Classical Lands of the Mediterranean, which comes to the 1,850,000 members of the National Geographic Society with this issue of their *NATIONAL GEOGRAPHIC MAGAZINE*.

The new chart, a companion to The Society's map of Bible Lands and the Cradle of Western Civilization, distributed with the December, 1940, *NATIONAL GEOGRAPHIC*, is drawn on the generous scale of 43.4 miles to the inch. It is an indispensable aid to students and also affords a fascinating refresher course in the rise of civilization.

Two hundred and seventy historical notes, printed in red, appear on the new map. Thus the chart carries some 2,000 words of notes as well as 3,200 place names, without overcrowding or impairing legibility.

Modern and Ancient Names Listed

The notes provide hours of entertaining reading. The double listing of ancient and modern place names is an incomparable aid in historical or geographical research.

Modern official place names are listed first, with ancient names directly beneath or beside them in brackets. Unofficial or Anglicized names, honored only through long usage, have been omitted. For example, the island of Corfu, off the southern tip of Albania, is listed as Kérkira (Corcyra); Florence, Italy, is Firenze (Florentia); Constantinople, Turkey, is Istanbul (Byzantium).

Regional names designate areas as they existed in ancient times. On the new map, Liguria, in Italy, extends as far north as the Po River; its expanse in the days of Caesar Augustus. The modern Province of Liguria is a narrow coastal strip stretching from the French border east to La Spezia.

Calabria, on the map, identifies the "heel" of Italy's "boot." Today Calabria is the "toe." The name was switched from heel to toe some twelve and a half centuries ago.

All of Italy, Greece, and Albania fall within the borders of the new map, along with parts of eight other countries and the islands of Malta, the Dodecanese, and Crete.

Many areas of the new map recall vividly the heritage bequeathed us by historic peoples and places of long ago.

Nearly 40 centuries ago the Minoan kings on the island of Crete were men of vast wealth. Here they built huge palaces of stone. Their people worshiped the bull as a sacred animal. Their craftsmen made pottery and engraved metal of high artistic merit.

On Crete arose the well-known legend of Theseus, the Athenian, who came to the island, entered its fatuous labyrinth, and there slew in his stronghold the Minotaur, a monster half bull and half man who fed upon human flesh.

The map of ancient Greece recalls the haunts of philosophers (Socrates, Plato); poets (Homer, Sappho); warriors (Leonidas); sculptors (Phidias); and statesmen (Themistocles, Pericles).

One of the map's six insets shows ancient Athens, with historic spots listed. There is the Grove of Academus, where Plato taught and whence comes our English word "academy"; the Lyceum where Aristotle gathered his pupils; and Piræus, whose importance as a port was visualized by Themistocles as early as 480 B. C.

Italian place names and notes recall the early Etruscans; the building of Rome on its seven hills; the days of the Republic when Cicero and Cato held forth in the Forum; and the era of the emperors, from the mighty Julius Caesar to the weaker monarchs of a later day who finally succumbed to the barbarians from the north.

Scanning the map, the reader will be reminded of the martial exploits of the Caesars, Hannibal, and Alexander. Scenes of decisive land and naval engagements are noted, along with ruins and sites of dead cities as important to the ancients as are London, New York, and Paris to our modern world.

Guide to St. Paul's Journeys

On The Society's map of Bible Lands, the missionary journeys of St. Paul were so listed in an inset. On the new map most of these historic travels may be followed in detail.

Thessaloniki, capital of Macedonia and the modern Salonika, knew St. Paul well. How he and St. Paul preached to the Christians there is told in Acts 17 and I and II Thessalonians are addressed to them.

Acts 17 also tells of St. Paul's appearance in the market in Athens, where he disputed with the Epicureans and the Stoics—an example of the epic clash between Greek philosophical teachings and Christianity.

* Members may obtain a large map of the Mediterranean Sea, 11 by 17 inches, on a standard map published by The Society, by writing to the National Geographic Society, Washington, D. C. Prices in United States and Possessions: 75c on paper, \$1.25 on linen. Outside United States and Possessions: 75c on paper, \$1.25 on linen, index, 50c. All remittances payable in U. S. funds.
The National Geographic Society, Washington, D. C.
Entered as Second-Class Matter, November 1940

CITATION OF HONOR

AFA



THE AIR FORCE ASSOCIATION PAYS TRIBUTE TO THE NATIONAL GEOGRAPHIC SOCIETY

FOR OUTSTANDING SERVICES TO
AIRMEN ACROSS THE GLOBE DURING WORLD WAR II
BY PROVIDING UNVALUABLE CARTOGRAPHIC AIDS AND INFORMATION
AND THEREBY CONTRIBUTING GREATLY
TO THE ACCOMPLISHMENT OF THEIR MISSIONS

U. A. Smith

TO: The National Geographic Society
FROM: The Air Force Association

World War II introduced global conflict for the first time in history, and with it the demand for cartographic information to guide American airmen and airplanes to the far corners of the earth and back again.

That the military services could not meet this demand was part of national unpreparedness. That a non-military agency, the National Geographic Society, could help fill the breach was at once a tribute to the significance of this organization and a testimonial to the civilian contributions that made victory possible.

The maps and charts of the Society guided men of the Air Force over far waters of the Atlantic and the ice caps of the Far North; over the islands of the Caribbean and the jungles of South America; helped build the air routes of Africa; went with the men of the Air Force over the Himalayas from India to China; took airmen up the long, hard island route of the Pacific from near defeat in Australia to victory in Japan.

For its ability to meet the emergency requirements of its country, for its invaluable contributions to the Air Force in accomplishing a global mission, the National Geographic Society is awarded this Citation of Honor for outstanding public service.

The Air Force Association

*Enclosed
July 2, 1949*

*U. A. Smith
President*

National Geographic Maps Guided Airmen over Icecap, Jungles, Seas, Mountains

When the United States entered World War II, the demand for maps and charts was greater than ever before. The National Geographic Society, which has been producing maps and charts for over 70 years, stepped forward to meet this demand. Its maps and charts were used by the military services to guide airmen over the most difficult terrain in the world. The Society's maps and charts were also used by the civilian population to navigate the world's oceans and mountains. The Society's maps and charts are now being used by the United Nations and other international organizations to guide the world's population.

It was at the Greek seaport of Corinth that Paul dwelt with Aquila, the tentmaker (Acts 18). After an 18-month stay he departed for Syria, taking Aquila and his wife Priscilla with him. During a later visit to Corinth, scholars believe, he wrote the Epistle to the Romans.

Acts 19 tells of Paul's trip along the "upper coasts" to Ephesus in Turkey; his two-year stay among the Ephesians, and his encounter with Demetrius, the silversmith, who made shrines for the Temple of Artemis. Ephesus, it will be remembered, was one of the "seven churches" mentioned in Revelation 1: 11.

Scholars believe that I Corinthians was written during Paul's stay at Ephesus and that II Corinthians was written while he was on his way through Macedonia.

Paul later made his historic journey to Rome (Acts 28) about A. D. 59.

Sites of four of the Seven Wonders of the Ancient World come within the scope of the new map.

One was the original Temple of Artemis at Ephesus, on the Aegean coast. Roman cities cooperated to build this monument, a marble building 425 feet long and 225 feet wide. The roof was supported by 127 columns of Parian marble, each 60 feet high. Ctesiphon was the architect. In 356 B. C. the temple was burned by a fanatic.

Another wonder was the statue of Zeus, in the valley of Olympia near the west coast of Peloponnesus. Phidias, the famous sculptor, built this marble, ivory-enriched memorial. Its draperies were of beaten gold.

The tomb of Mausolus, a third wonder, was built by the king's widow at Halicarnassus, on the coast of present-day Turkey, in 353 B. C. It was remarkable for its magnificent interior. The building was destroyed by an earthquake, but its name, the Mausoleum, has come down to us today.

Incidentally, Halicarnassus was the birthplace of Herodotus, the noted traveler and historian of the ancients.

Also destroyed by an earthquake was a fourth wonder, the Colossus of Rhodes, a brass statue representing the Greek sun-god, Apollo. It stood about 109 feet high at Rhodes, on the island of Rhodes.

Others of the Seven Wonders, now located within the borders of the new map, were the Pyramids of Egypt, the Hanging Gardens of Babylon, and the Pharos, a white-marble lighthouse on the island of Pharos in the port of Alexandria, Egypt.

Other remarkable ancient accomplishments noted on the new map are the Circus Maximus and the Colosseum at Rome,

and the Appian Way (Ancient Rome inset).

The Circus Maximus was built by King Tarquin and enlarged by Julius Caesar. Its further expansion by the end of the fourth century after Christ enabled it to seat 385,000 spectators at horse and chariot races.

The Colosseum, built by 12,000 slaves from Jerusalem, had a seating capacity of 50,000 and standing room for 20,000 more. Wild animals were kept in dens beneath the floor. Thousands of prisoners, including early Christians, perished here in combats with tigers and lions.

The Appian Way, begun by censor Appius Claudius about 312 B. C., stretched 360 miles from Rome southeast to Capua, then on to the east across Italy to Brundisium (then Brindisium), on the Adriatic Sea.

Inset Shows Greco-Roman World

In the upper right-hand corner of the new map a large inset of the Greco-Roman World compares the greatest extent of Alexander's empire in 323 B. C. with that of Rome at the time of Trajan, A. D. 116. Phoenician and Greek cities are marked in red, and Roman cities in blue. The Mediterranean Sea is colored in blue and red for Greek.

Names used in the inset retain classical or Latin forms of the time when Latin was spoken, if not read, by educated Europeans. Modern names appear in brackets.

Three smaller insets show the geography of the world as it was known in the time of Homer, Herodotus, and Strabo, a period covering the first 1,000 years of recorded history.

The Greeks of Homer's day believed the world was a flat, circular plate, the limits of which were enclosed by the River Oceanus. The inhabited world then centered chiefly around the eastern Mediterranean and Black Sea regions. Their hazy knowledge of the western Mediterranean is represented by scattered islands inhabited by monsters such as Scylla and Charybdis. Homeric Greeks feared the sea and confined their shipping to near-by coastal areas.

There is a strong suspicion that stories of monsters and terrors were circulated by the seafaring Phoenicians to discourage competition in their maritime trade.

Herodotus lived about 400 years after Homer. The inset of his world incorporates four centuries of geographical progress. The Greeks by this time had ventured into the western Mediterranean. Italy, Sicily, and lands west were recorded. Regions south and east of the Black Sea as far as India became a part of the inhabited world. The North

African coast from the Nile valley to the Nile, together with Phoenician and Egyptian settlements, were better known.

Strabo was born at Amasia in Asia Minor about 63 B. C. His world as shown in the third inset is a composite cartographical picture of the inhabited world as it was known at the dawn of the Christian Era.

The world of Strabo also expanded in direct proportion to the movements of man. As traders and scholars returned from outward journeys, better accounts were recorded of the nations and people north and south of the Danube (Ister). As trade flourished, lines of communication lengthened. More detail of land masses was given.

New Map Guide for Air Travelers

Modern highways on the new map are shown with a red half-tone line; railroads are drawn in black. Approximately 70 important air terminals are shown, each indicated by a red star.

Sight seeing from the air on a flight from Rome to Athens with The Society's new map in hand, could afford fascinating identifications of the varied scene beneath.

Beyond Rome the panorama would include modern Cassino, front-page news of World War II; and Arpinum and Venusia, birth-places of Cicero and Horace. Farther south-east near the Gulf of Taranto, the site of Heraclea would come into view. Here, in 280 B. C., the elephants of Pyrrhus, King of Epirus, terrorized the horses of the Romans and added to the defeat of the Roman army.

Crossing the Ionian Sea to the west coast of Greece, passengers could identify the site of Actium where Octavian defeated the fleet of Antony and Cleopatra in 31 B. C. Twenty-five miles south are the cliffs of Leucate, the promontory of the ancients, where at Apollo's festival criminals with birds attached were thrown from cliffs. Those that survived were set free.

Approaching Athens, passengers would see Mount Oeta, where Hercules came to die on a pyre, and Mount Parnassos, reputed landing place of Demeter, the Greek Noah.

The Italian town of Adria, the Atria of the ancients, originally founded on the Po estuary, is now 14 miles from the sea. Black silt from Italy's steep mountain sides and fertile valleys has been carried down swift-flowing rivers, burying villages and making up a huge delta similar to that of the Mississippi River. The Adriatic Sea takes its name from the city, which means "Black Town."

Southwest of Rome lies Ostia, ancient port of Rome, at the mouth of the Tiber River.

Its name comes from the Latin *ostium*, meaning "mouth."

Sand brought down to the sea by the Tiber finally made navigation at Ostia dangerous; so a new harbor named after Augustus was built three miles to the north on the right arm of the river. Today both of these former coastal towns are three miles inland. But modern machinery keeps both mouths of the Tiber open. Swamplands have been drained and transformed into fertile fields and seaside resorts.

The site of Helice, capital of ancient Achaia in the northern Peloponnesus, cannot be shown on the map. Helice was destroyed by an earthquake and swallowed up by the sea.

The famous pass of Thermopylae, heroically defended by a handful of Spartans under Leonidas against the Persian army of Xerxes, was at the time of its defense a scant quarter of a mile from the sea. Alluvial soil carried via the Sperchio River for the past 2,430 years has forced the sea to recede, so that now the pass is some three miles from the coast. Modern Greece has recently drained the soil deposits and reclaimed the land for rice culture.*

Thermopylae, meaning "Hot Gates," is derived from the Greek words *thermo*, heat, and *pyla*, gate, so named because of the hot sulphur springs at the gateway to north and south Greece.

The town of Siena, Italy, noted for its excellent clay, gave its name to the English word "sienna." From ancient Ammonium in western Egypt, chief seat of worship and oracle of the god Ammon, is derived the words "ammonium" and "ammonium." The descriptive verb "meander" comes from the winding Menderes River (Maeander), south of Izmir, Turkey.

Placed above the title of the map is a list of well-known mythological characters given in both Greek and Roman forms. Thus the Goddess of Beauty was Venus to the Romans, Aphrodite to the Greeks. Hercules, hero of nearly every school child, is the Roman version of the Greek Heracles.

International boundaries on the new map are shown as they exist today. The Montenegrins, recently Italian, are now tinted yellow, the same as Greece, the mother country. The Indo-Yugoslav and Franco-Italian frontiers are shown according to World War II peace treaties. The new Free State of Trieste is not "free," but continues to be under military occupation because of Italian-Yugoslav failure to agree on an administrator.

* See "War-torn Greece Looks Ahead" by Maynard Owen Williams, page 541.

Give an
Esterbrook
 with the point
 you know they're
 sure to like

STANDARD PEN
 25-30-35-40-45

STANDARD
 25-30-35-40-45

STANDARD
 25-30-35-40-45

Medium
 Stub

Medium
 Stub

Medium
 Stub

FOR SOCIAL
 & BUSINESS

FOR SIGNATURE AND
 GENERAL WRITING
 - MEDIUM

FOR
 FINE WRITING

FOR ACCOUNTANTS
 AND FINE WRITING

FOR
 STENOGRAPHERS

Only a few of the most
 popular points shown.

In case of damage any Esterbrook
 Lever-Point may be replaced
 instantly at any pen counter
 30c and 50c

ESTERBROOK MANUFACTURING CO.



MATCHED PEN AND PENCIL SET
 Match your gift of an Esterbrook
 Fountain Pen with an Esterbrook
 Push Penc. A push on the top ends
 the lead as needed. Holds two lead
 rods and writes for months without
 sharpening. Lead never widens,
 never jams. Push Penc is 32 and
 up. Matched Sets 34 and up

No pen makes so personal a gift as an Esterbrook Fountain
 Pen. And the person who gets your gift of an Esterbrook
 knows you've cared enough to choose a pen especially for
 him—to match his writing or fit his writing job exactly
 —cared enough to have your gift say, "Here's a Merry
 Christmas with the right point for the way you write!"

Esterbrook
 Fountain Pen



RELEASING the HUMAN MIND . . .

IBM has been successful in releasing the application of the human mind to computing machines. The result is a new type of man's creative activity.

Through the use of electron tubes such as the one shown above, IBM has produced machines which are hundreds of times faster than calculators in the solution of problems. Accurate answers to some of the most complex problems, including the most complicated mathematical problems, are obtained in minutes instead of hours, days instead of months.

Through IBM Electronic Machines, the human mind is finding new solutions to mathematical problems.

IBM products using electronic principles:

Condensation-type Calculator
Counting Punch
Statistical Machine
Alphabetical Calculator
Punching Card Sorter
Electric Time System with Electronic Self-regulation

IBM

International Business Machines Corporation

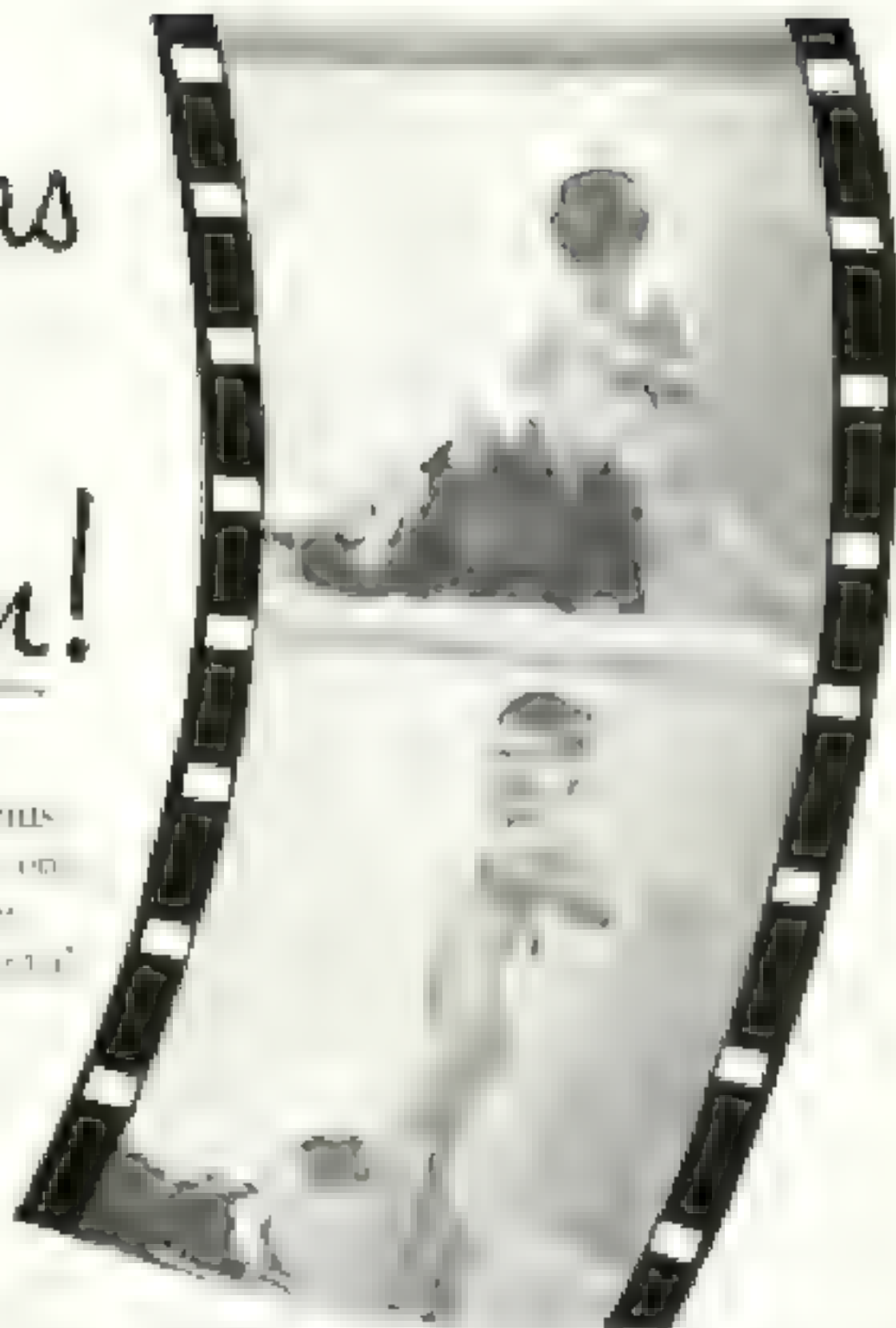
Armonk, New York

590 Madison Avenue • New York 22, New York

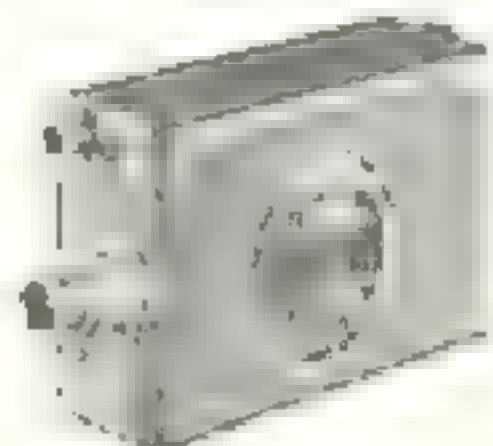
This Christmas picture your family in action!

How wonderful to share happy memories
Christmas morning and have them on
film! That's why we want to give you a gift that lets
them in action with the Bell & Howell camera!

Make this Christmas picture by
getting a Bell & Howell camera that
lets you take pictures of your family
and friends in action!



Foton. The smallest camera ever made.
It's the perfect camera for the family.
It's the perfect camera for the family.
It's the perfect camera for the family.
It's the perfect camera for the family.



Auto Load. A camera that takes pictures
of your family in action. It's the perfect
camera for the family. It's the perfect
camera for the family. It's the perfect
camera for the family.



Auto 8. A camera that takes pictures
of your family in action. It's the perfect
camera for the family. It's the perfect
camera for the family. It's the perfect
camera for the family.

You buy for a lifetime
when you buy

Bell & Howell

For more information, write to Bell & Howell
Camera Company, 100 North Dearborn Street,
Chicago, Illinois 60611.

THE NEW
Caribe Hilton
 SAN JUAN, PUERTO RICO



Gem of the Caribbean...Opening December 9th

The magnificent Caribe Hilton... the largest and most glamorous hotel in the Caribbean... will open on a beautiful picturesque San Juan at the crossroads of the Americas. With its 300 delightfully air-conditioned guest rooms, each with private balcony overlooking the ocean and exotic tropical gardens, the Caribe Hilton will offer the utmost in luxurious comfort and modern convenience.

Consult your travel agent, write direct, contact Caribe Hilton Reservation Office: The Plaza, 5th Avenue & 54th Street, New York, Telephone Murray Hill 6-2290 or any Hilton Hotel.



HILTON HOTELS WORLDWIDE

In Chicago
 THE PINEHURST and
 THE ALDEN HOTEL

In New York
 THE PLAZA and
 THE MAYFLOWER

In Washington, D. C.
 THE MAYFLOWER

In Los Angeles
 THE TOWN HOUSE

In Dayton, Ohio
 THE HILTON BILTMORE

In St. Paul and
 Lakeland, Florida
 THE HILTON HOTEL

In Albuquerque, New Mexico
 THE HILTON HOTEL



New Southerner For The New South

From Atlanta, New Orleans, Gulf
Mississippi, New Birmingham, At-
lanta, the new line will connect with
the Gulf and the Atlantic, head-
quarted here, take over the Southern
Railway to Washington and New
York. The new Southern, according
with a business steel case sent by
The B. & O. Company.

I see a potential that our cars could get the benefit of the reduced emissions and fuel economy and performance benefits that has generated so many of us have experienced. I've not as yet been worked on results for that, we have worked for years.

But George has always seen the creation of better products through the use of superior materials and a better engineering design. In ques-

starting at the horizontal line of the center of gravity and extending to the vertical line of the center of gravity, the distance between the two lines is the distance between the center of gravity and the center of buoyancy.

[illegible]

The Most Common, Most Deadly

What a thrill to see Christmas Pictures a minute after you snap them!

Now the whole family can see
their holiday pictures just 60 seconds
after you take them! The
Polaroid Land Camera is easy
to use — it's simple that even kids
can understand it. You
just snap the shutter, press a
button, pull a tab and a picture
appears...

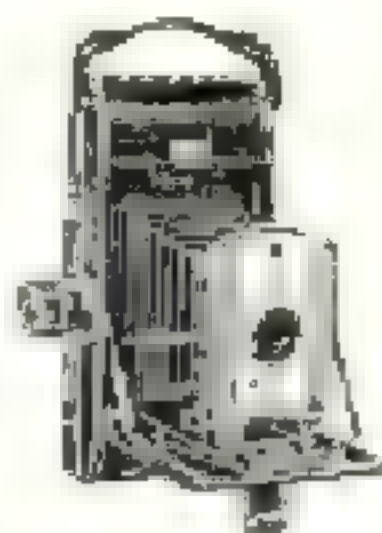
See a beautiful big print — in
the now-famous sepia-toned
sepia tone. It's comparable to
the crisp white border. The pic-
ture is ready to enjoy at once
and will last for years to come.



ACTUAL SIZE

POLAROID
Land **CAMERA**

at camera stores everywhere



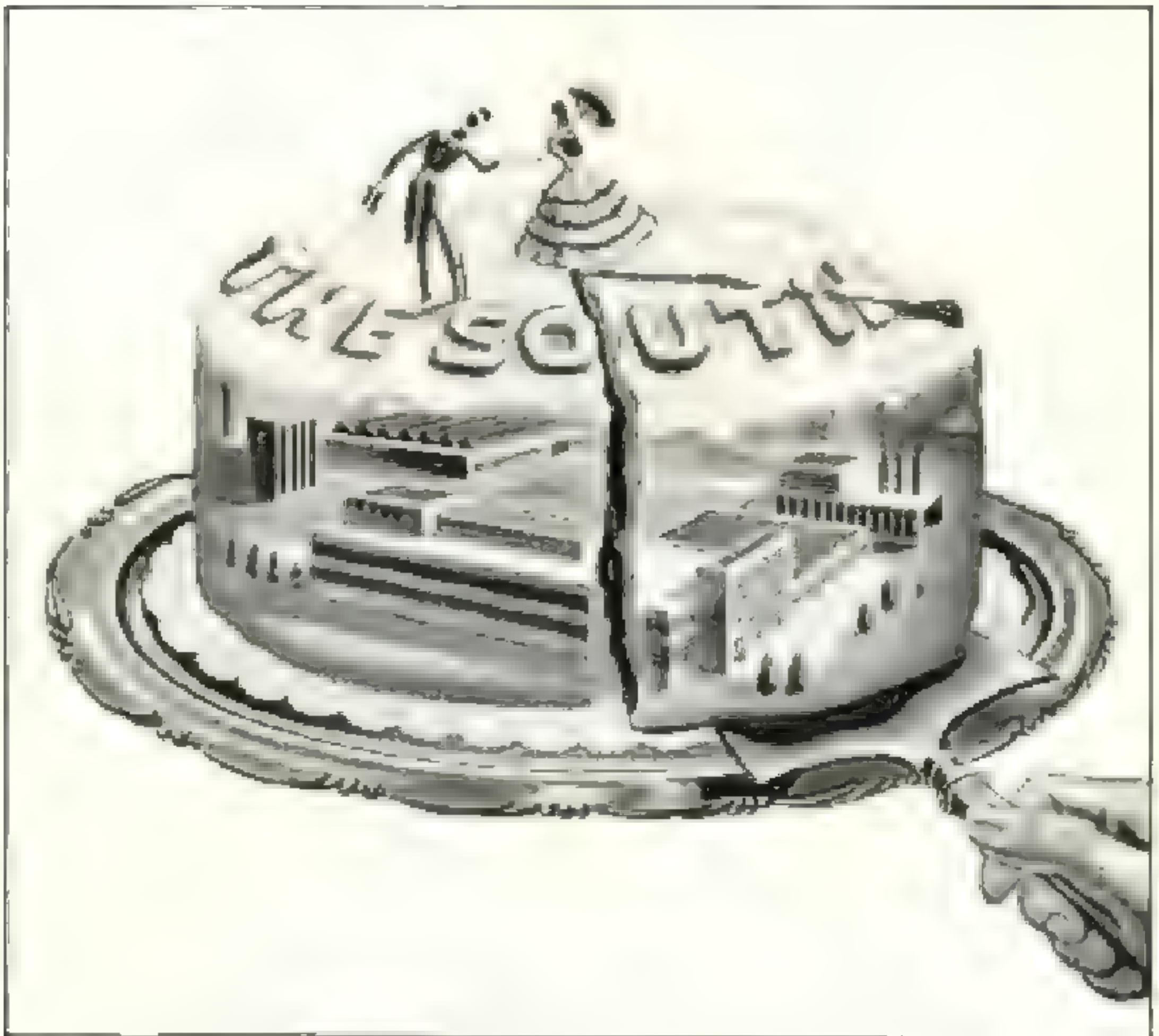
Start using the Polaroid Land® Camera the mo-
ment you open the box, for anyone can take good
pictures — in a minute, indoors or out. Once-in-a-
lifetime scenes — around the Christmas tree, the
opening of the stockings, the family reunion —
are yours for sure. You see each picture immedi-
ately, can improve pose and lighting as you go
along. This is the only camera that gives you a
second chance!

More than five million pictures have already been
made by 15 million camera owners. Professionals
and amateurs alike are taking to the Polaroid
Camera opens a whole new field of photography.

Polaroid guarantees the quality of its
cameras — completely free of cost for trans-
portation charges, copy defects or work-
manship of materials.

For free booklet that answers all your
questions about picture-in-a-minute
photography — tells how you can take
better pictures — and have more fun
doing it — write Polaroid Corporation,
Dept. N-6, Cambridge 38, Mass.

*Named for its inventor, Dr. Edwin H. Land
Polaroid



Here's one to eat and have

FOR industries seeking greater opportunity for growth and progress, the South is a "cake" that proves the old proverb wrong.

Here along the Southern R.R. lines, industries are discovering that they can "have their cake and eat it, too." They're thriving on the unique combination of favorable economic

facture. And the "cake" gets larger and larger. Because as more and more industries settle in the fast-expanding South and, there is greater opportunity and a brighter future for all.

*Look Ahead—Look South!*SM

Ernest E. Harris

President

LOOK SOUTH.
LOOK AHEAD.

SOUTHERN RAILWAY SYSTEM

The Southern Serves the South



"My Daddy's been a good boy, too – and he wants a new PLYMOUTH!"



FIRST CALL

For Dinner on the Desert

Spinning autumn leaves and the ever-shortening daylight hours say all too plainly that cold, crab, dreary winter days are just ahead. Don't bottle the blizzards—follow the sun to Phoenix, where winter is only a word.

Yes! Dinner on the desert—dinner on the desert is easy, with a good sun always. You can be warm and comfortable all day long. The winter will add new meaning to life—new friends, new adventures. So your escape, now, to the glowing warmth of the warm Valley of the Sun.

Write today for free descriptive literature.

Valley of the Sun Club
491 Chamber of Commerce Building
Please send me free, illustrated literature on Phoenix and the Valley of the Sun

Name _____
Address _____
City _____ State _____

WARM-DRY-FRIENDLY
Phoenix
Arizona
IN THE VALLEY OF THE SUN

For that SPECIAL person THIS EXTRA SPECIAL GIFT THE WESTON *Cadet* EXPOSURE METER

Simplified for easy use so compact it fits the pocket... the Cadet is the ideal gift for the companion. Provides Weston dependability at a budget price. See the Cadet, as well as the Master model, at your photo dealer. WESTON Electrical Instrument Corporation, 584 Frelinghuysen Ave., Newark 5, N. J.



WESTON
EXPOSURE METERS

"The Meter Most Photographers Use"

norma

MULTI COLOR PENCIL

4 colors in one Pencil

RED BLUE GREEN YELLOW

The Present with a Colorful Future

Perfect gift for busy people. The right color—right away—speeds all paper work. Guaranteed for mechanical perfection. \$4.50 up at better stores. Write for booklet G1.

The Versatile Pencil of Tomorrow

Norma Pencil Corporation, 132 W. 34 St., N.Y. 17

Sunny ITALY

A MATCHLESS TRIP ON AMERICAN EXPORT LINERS



Foremost Palazzo Vecchio tower in Florence, centre of Old World culture

WHERE FIRST and foremost, will you find such unforgettable pleasure *in all seasons*... sun-drenched Sicily, Capri and the fabulous Riviera, innumerable ski slopes in the majestic Alps, breathtaking sights in Rome, Milan, Florence, Venice and many other colorful places.

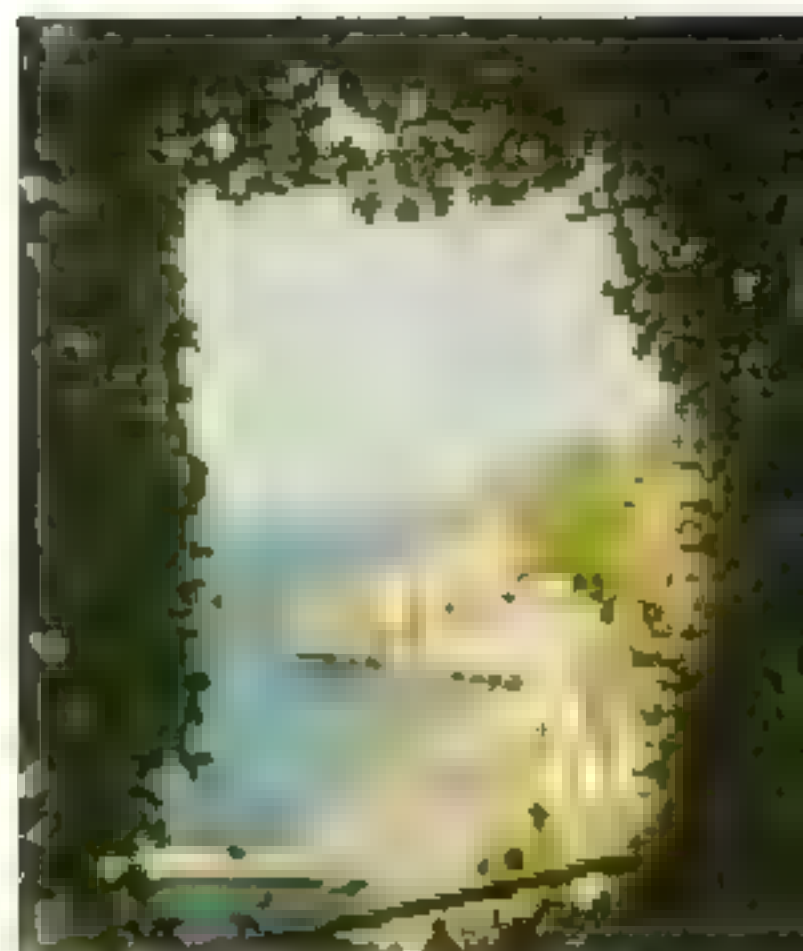
The new, air-conditioned "4 Aces" are the ideal way to Italy and the Mediterranean. They provide safety, pleasure and comfort in accordance with the highest American standards. Every other Tuesday from New York on the mild, sunny Southern Route.

Also modern American liner LAGUARDIA in monthly service direct to Italy, Greece and beyond.

Your General Area will also include a small area for

AMERICAN EXPORT LINES

39 Broadway, New York 6, N. Y.



The old 30,000-ton ship was
 damaged beyond repair and
 was to be scrapped.

Table 3. *Mean values of the variables of the 1000 m run (n = 45)*

The Government of Iowa will not
allow a taxpayer of the 10th



THE NEW AMERICAN EDITION

Coming in the Fall of 1950

Driving is great in
MISSISSIPPI

Left a note for the other Minnesota's beauty queen, Mary Margaret, the living a always presence in the Hospital of Santa Anita for a time with loss of but a day and he sent to and he did not stop at a hospital just for a moment before he went to the other hospital in the hospital.



$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$

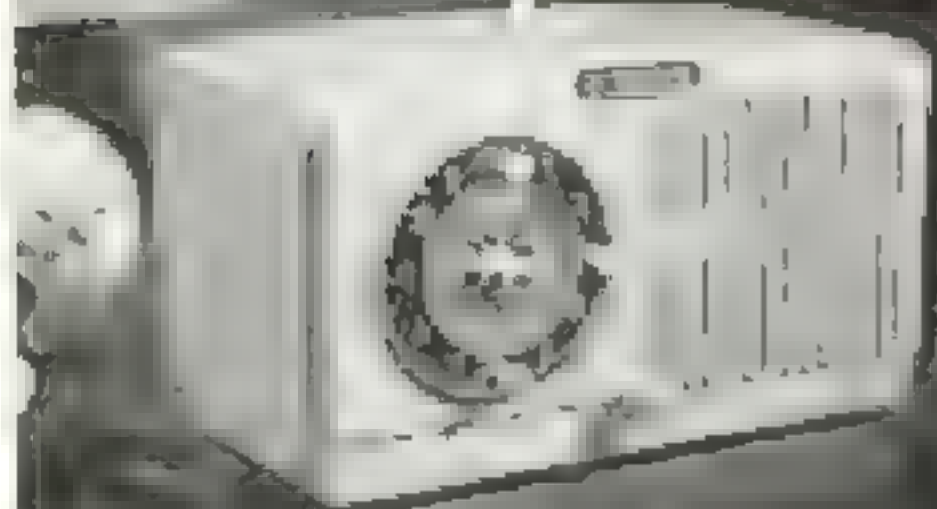
1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

此、李、王、白、公、天、地、

THE HOSPITALITY STATE

IDEAL GIFT
— anytime!



CLOCK-RADIO

with Slumber Switch

Wakes you to sleep, then turns itself off! Wakes you to work, automatically! Smart table radio for round-the-clock playing. G-E electric clock—tells time in the dark, heavy plastic cabinet. Model 65.

GENERAL  ELECTRIC

TO AMAZE AND DELIGHT

Children

Give
VIEW-MASTER
STEREO-STORIES
ILLUSTRATED WITH
FULL COLOR PICTURES
IN YOUR OWNERSHIP

[illegible]

43741 256 205 51 03

FFLY 251 UNIT

• 451 •

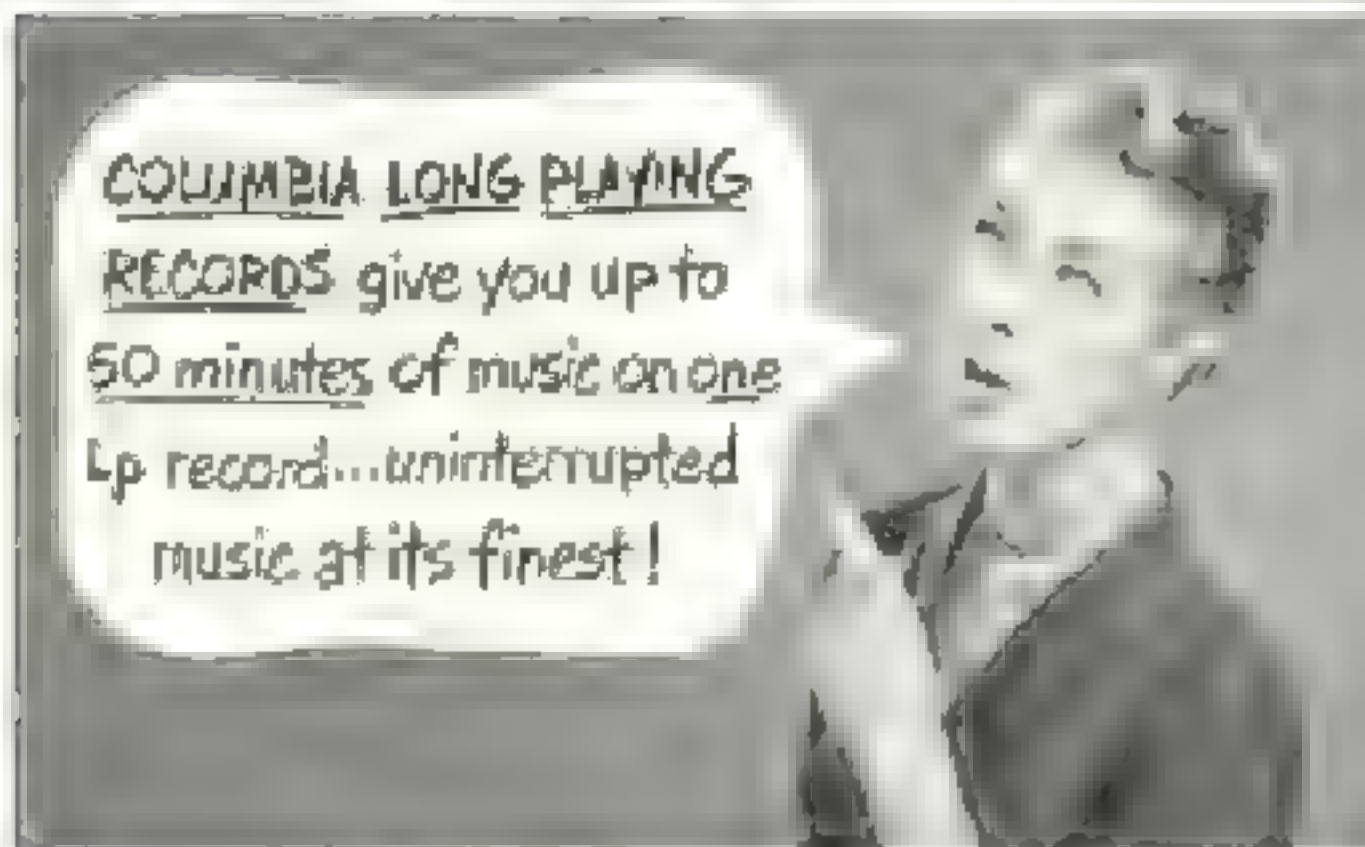


VIEW-MASTER
STEREOSCOPIC PICTURES

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26



HOW LONG
WILL IT PLAY?



**COLUMBIA LONG PLAYING
RECORDS** give you up to
50 minutes of music on one
Lp record...uninterrupted
music at its finest!

Enjoy uninterrupted music now!
It's easy and inexpensive to
adapt your present radio or
phonograph for Long Playing
Records. Ask your dealer
about the Columbia Play-
attachment and the new
Columbia LP Cartridge...the
world's largest catalog of un-
interrupted music!

**COLUMBIA
RECORDS**



the new standard
of record
perfection

© 1954 Columbia Records Inc. All Rights Reserved.
Columbia Records Inc., New York, N.Y.

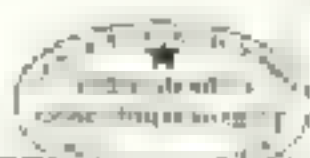
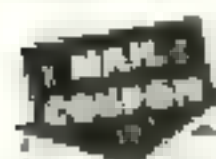


Give the
only Gift of
its Kind

THE WORLD'S FINEST
MASSAGE INSTRUMENT

**Qster STIM-U-LAX
JUNIOR**

Qster Stim-U-Lax Junior is the only massage instrument of its kind. It is a small, round, textured object that can be used to massage the body. It is made of a special material that is designed to provide a deep, penetrating massage. It is the perfect gift for anyone who loves massage.



Qster Stim-U-Lax Co. Dept. 1112, Rye, N.Y.

Please send me information about Qster Stim-U-Lax Junior.

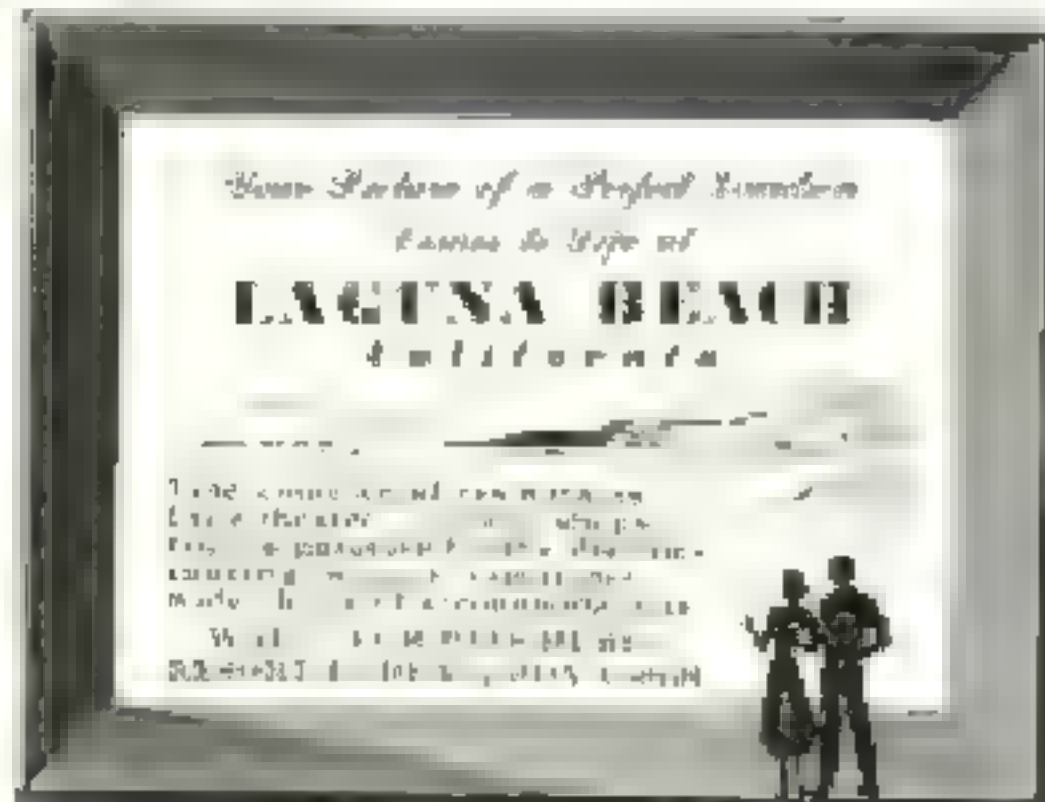
Name

Address

City

State

Zip



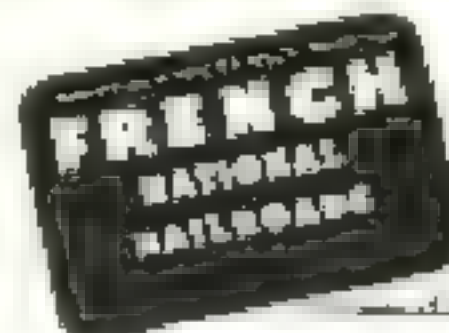
RAIL SERVICE IN FRANCE

Information for combined Rail and Motor Coach
Tours in France gladly furnished.

Through trains cover all France and the
many capitol of Europe.

Advance reservations and tickets obtainable
at our New York office.

610 FIFTH AVE., NEW YORK, N.Y.





Once upon a time... there was a little princess who was very gentle and kind to all about her. And because she was so good, one day a good fairy appeared to her one day and said: "I am giving you an Enchanted Mirror. When you look in it you will see and hear things that are far away - even to the farthest corner of the earth. Through it, skilled musicians will play for you and learned men will speak to you. This Enchanted Mirror will bring to you much pleasure and deeper understanding - so that you may live your life in wisdom and happiness. The Enchanted Mirror presents gift that I can give."

Illustration by the author. The Enchanted Mirror presents gift that I can give. FM radio. Automatic record player for 45 RPM records.

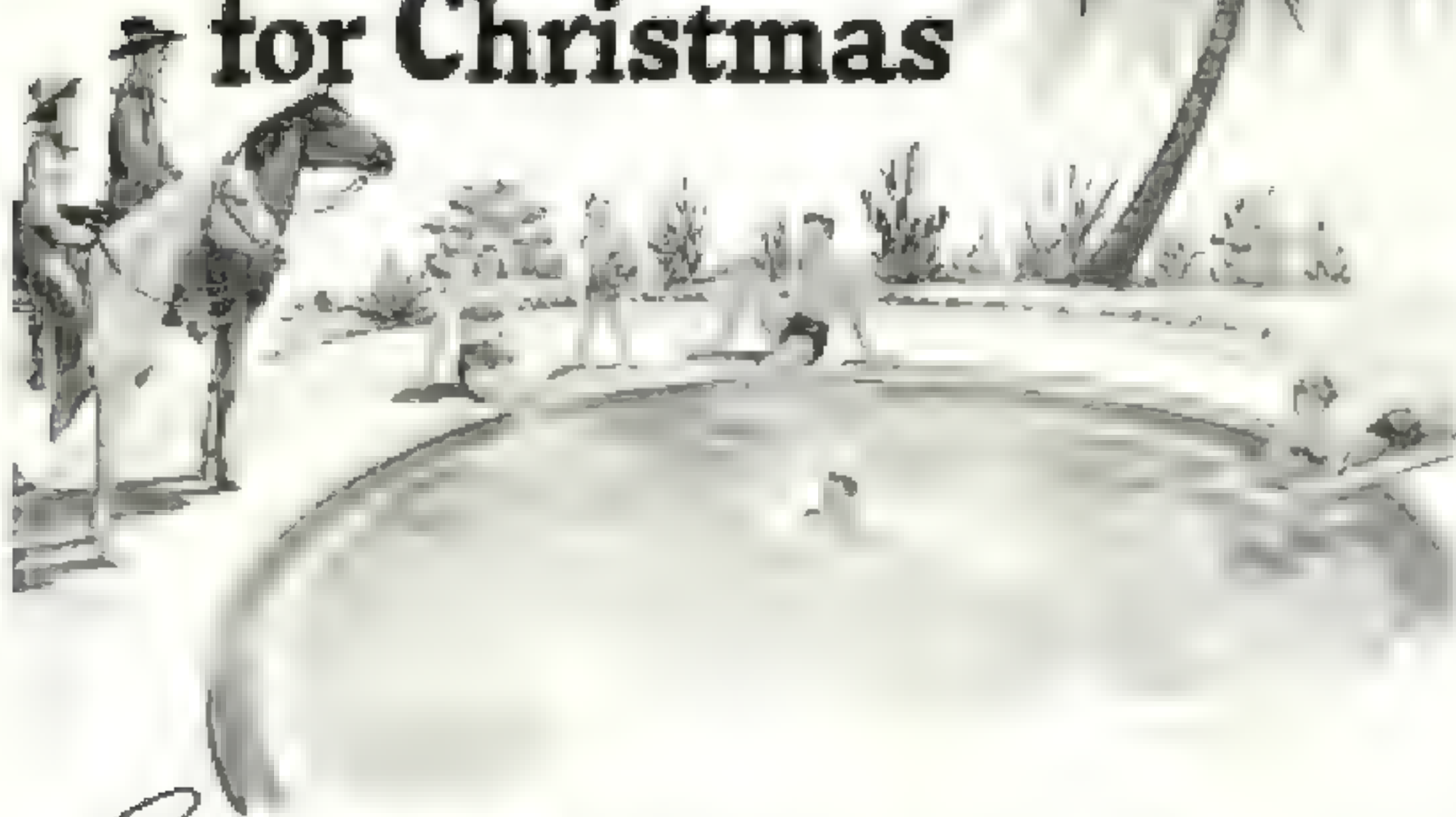
DUMONT *Set with the best in television*

At the Dumont Company, Inc., 100 West 42nd Street, New York 36, N.Y., you can see the Dumont Company's new 10" color television set, which is the only one of its kind in the world.

Give your family

the **Sun**

for Christmas



Go

**Santa Fe to Phoenix, Wickenburg,
Palm Springs and Southern California**

You've promised your children the thrill of a winter vacation sometime. This is the year! Why not make it your Christmas present to them? The resorts and ranches in sunny Arizona and Southern California are beckoning, and Santa Fe's famous fleet of five trains to these "sun spots" offers schedules and accommodations to suit you to a "T."



Santa Fe Northern Railway, Route 700, Dept. RR-8
1611 North Main Street, Santa Fe, N.M.
Please send me your free literature of winter resorts and trains.
In the amount of _____

Name _____

Address _____

City, State, Zip _____

Telephone () _____



SERVICE THAT FOLLOWS THE SUN

- Leader in world-wide life insurance, the Sun Life Assurance Company of Canada gives unequalled service to its 1,500,000 policyholders from offices situated in strategic key centers around the globe.
- Sun Life policies are designed to provide comprehensive life insurance and annuity protection. Many plans incorporating distinctive and unusual features are available, guaranteeing security under a great variety of circumstances. Generous cash and loan value privileges are included, together with valuable settlement options at death or maturity.

Send for free booklet "Service That Follows the Sun". Write: Sun Life of Canada, Trans-Canada Bldg., Washington, D. C., or Head Office, Montreal.

SUN LIFE
ASSURANCE COMPANY
OF CANADA

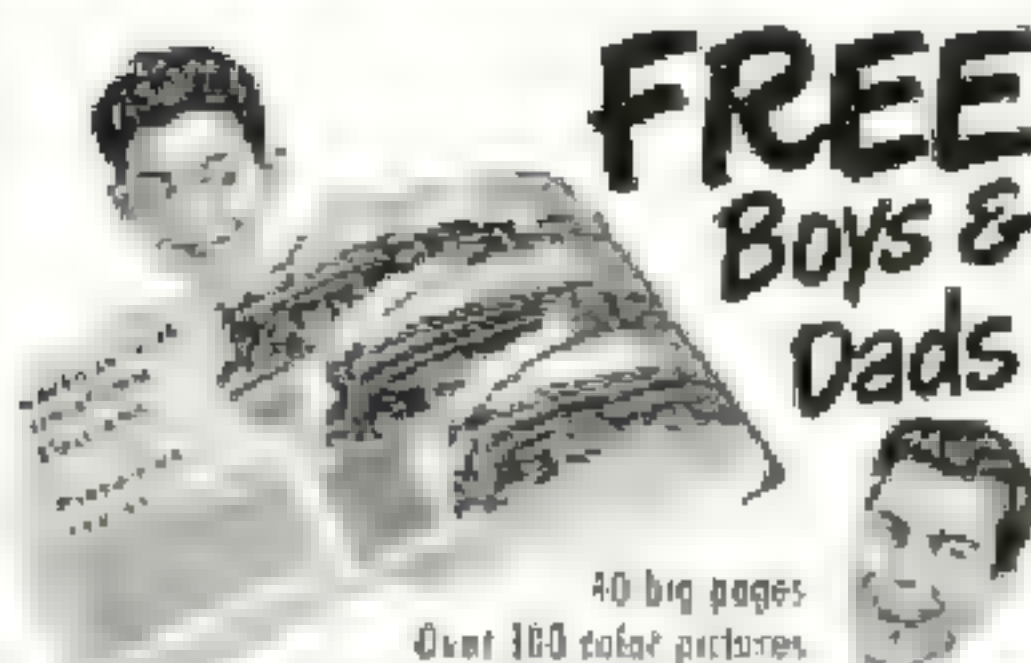
SECURE YOUR FUTURE TODAY



**FOR YOUR SKI VACATION
IN ROMANTIC QUÉBEC**

Discover the joys of the winter season in the heart of the Province of Québec. This booklet tells you where to go, what to do, and how to enjoy the best of the winter season. It includes information on ski resorts, hotels, restaurants, and more. It's a must-read for anyone planning a winter vacation in Québec.

LA PROVINCE DE
Québec



Giant Train Book

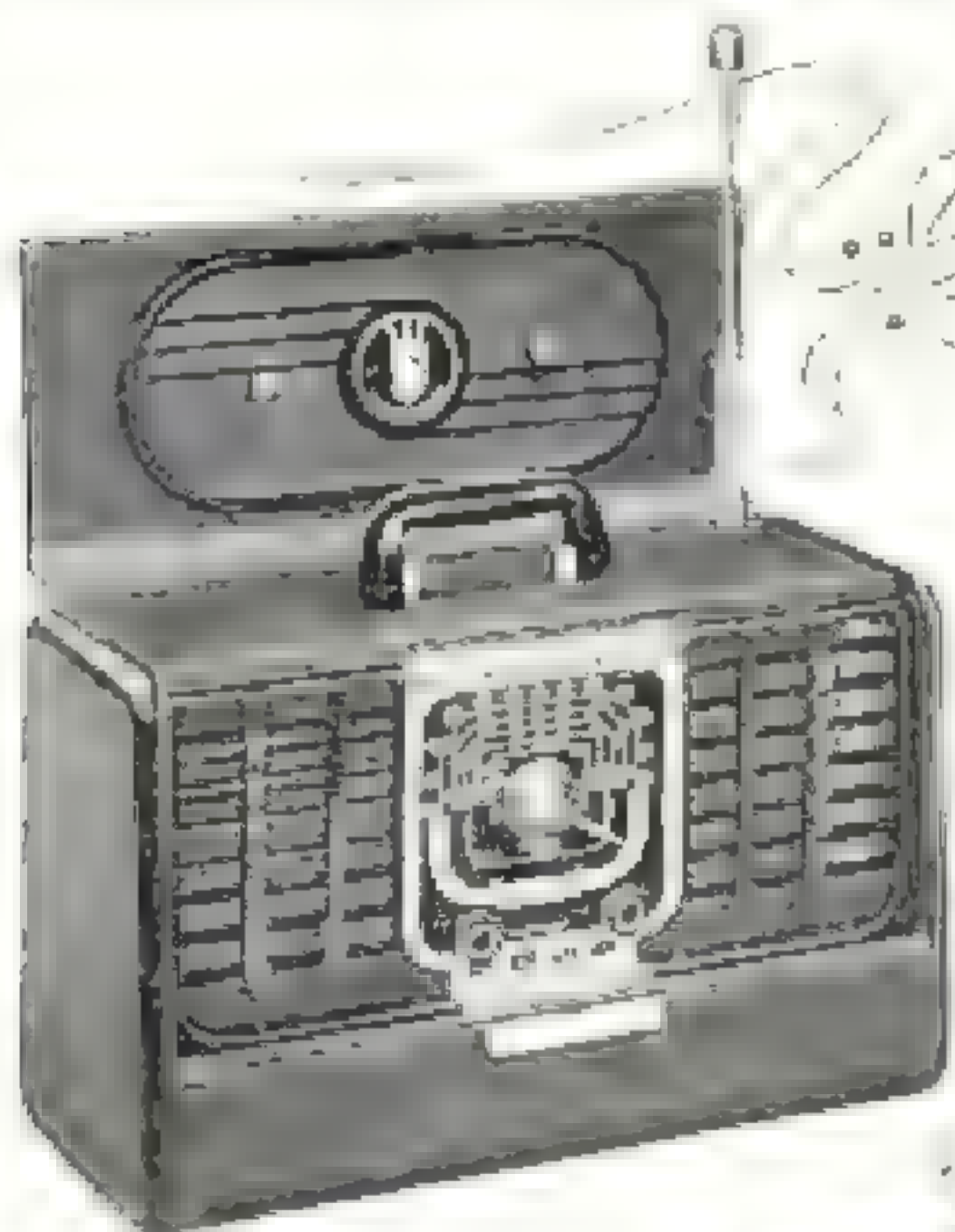
A tremendous 40-page All-boys book. A complete boys' manual that includes 2nd and 3rd grade material, new games and projects, and more. It's a must-have for any boy's collection. It includes information on trains, engines, and more. It's a must-read for any boy who loves trains.

Get your Giant Train Book today! Write to: The Giant Train Book Co., P.O. Box 100, New Haven, Conn. 06510. Price: \$1.99.

Name: _____
Address: _____
City: _____ State: _____ Zip: _____

The King of the Season *Recommends* The Royalty of Radio

What wise and sensible gifts—those smart people who give more than just gifts. Who give you Zenith—the Royalty of Radio—you give years of lasting pleasure. Matchless radio masterpieces of unequalled quality and beauty. Treasured lifetime possessions from the world's leader in portables. And remember too—to give a Zenith... portable, table radio or console... is to know the supreme pleasure of Christmas giving.



New Zenith "TRANS-OCEANIC"

Now a new masterpiece is yours to treasure. The most portable, the most beautiful. Most powerful, most sensitive. 11 tubes, 150 watts. Push button, fast action, 500 cycles. Standing for hours, portable. Ship's Wave coil. Separate hands. The most beautiful of radios. Works on thirty, ten and battery, and on AC or DC.

only \$99⁹⁵* Less Batteries

New "ZENETTE" by Zenith

The most popular low priced set a portable ever made. It has the most powerful 7 tubes, 150 watts. 500 cycles. 11 tubes. 150 watts. AC or DC. Works on thirty, ten and battery.

in black or white.
18

only \$39⁹⁵*
Less Batteries



ZENITH
REALIZING RADIO
and TELEVISION



Only at Zenith
Radio Corporation

ZENITH RADIO CORPORATION, CHICAGO 39, ILL.
Also Making and America's Finest Hearing Aids



Now RCA's new 10" color TV is the only one in America with a built-in color camera.

Inside story of Better Television

Now television is fast becoming the most important new communication medium in the world. The "newest" medium, it is, in fact, the most important of all. It's the only one that can bring you the best of everything—news, entertainment, education, and more.

The screen of your color television television is the face of a tube-neck scope that lets you see the world as it is. It's the only one that can bring you the best of everything—news, entertainment, education, and more.

At RCA, we've built a new television set that's the only one in America with a built-in color camera.

At RCA, we've built a new television set that's the only one in America with a built-in color camera. It's the only one that can bring you the best of everything—news, entertainment, education, and more.

The RCA color television set is the only one in America with a built-in color camera. It's the only one that can bring you the best of everything—news, entertainment, education, and more.

How you profit

At RCA, we've built a new television set that's the only one in America with a built-in color camera. It's the only one that can bring you the best of everything—news, entertainment, education, and more.

The RCA color television set is the only one in America with a built-in color camera. It's the only one that can bring you the best of everything—news, entertainment, education, and more.



RADIO CORPORATION of AMERICA

World Leader in Radio — First in Television

PREFER THE **Stereo Realist**

THE CAMERA THAT PUT 3rd DIMENSION ON FILM



Harold Lloyd

Learned About Your Product
Director and the Director of the
for the company, please

Says: 'I own one I like it, love it it takes the most amazing pictures we ever seen.'

As a result of the above, the following theorem can be proved.

[illegible][illegible]

34. *Journal of the American Statistical Association*, 93 (1998), 1089-1097.

[illegible]

STEREO **Realist** 

附註 此表係根據本會所屬各分會之調查結果彙編而成，其資料來源如下：



for the
Sportman
... the
Hawth
+ Lord
Binocular

Here's something special for your "annual special"—the highest achievement in book design. Study our informative 4-page booklet of facts about type—its construction and performance—free, with no need to request a card. From the New York Special City, 1945, Inc., 170 Park Boulevard, N. Y.

[illegible]

BAUSCH & LOMB



MESA
ARIZONA



YOU ARE now in the Mesa the
 Little City of the Sun wide in the heart
 of the country to spare. Fourteen up to eleven

Indian Representation Assured Indian Rights

Superstition Mountain and other scenic wonders, captivate your interest. Green fields, citrus groves, dates, palms and flowers add colorful touches.

Plenty of Guest Ranches and other accommodations in the Mesa Area are available at reasonable rates. Pastoral education is also available for individuals.



FROM THE EDITOR

Chamber of Commerce Bldg. (N. Mesa, Arizona)
Send this order and other literature to the above
Mesa, Ariz.

34312

SEMIK 50

CITY

5. *Chlorophyll a*

Cinema's A Habit In Maine

KAYWOODIE

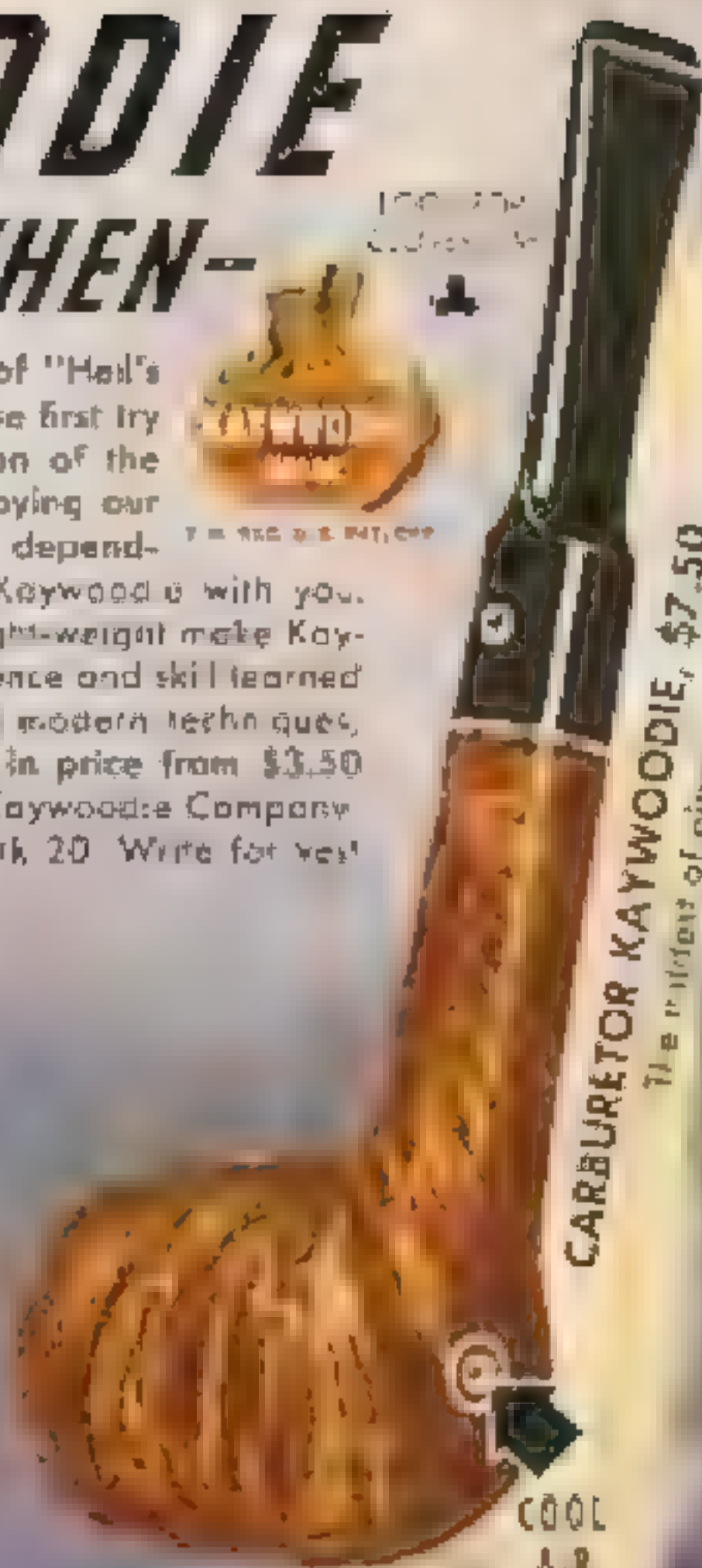
MADE IN U.S.A.

REMEMBERS WHEN-

In 1869, our 18th year, the roaring waters of "Hell's Half Mile" smashed Major Powell's boat on the first try ever made to get through the Grand Canyon of the Colorado River. Many a trail-blazer was enjoying our pipes over his camp-fire, then as now. For dependability, steadiness, straight-thinking, take a Kaywoodie with you. Good smoking, balance, good proportions, light-weight make Kaywoodie a good companion. Made with experience and skill learned by our pipe-makers from their dads, with all modern techniques, equipment and research, Kaywoodies range in price from \$3.50 to \$25., same quality and prices as pre-war. Kaywoodie Company New York & London, 630 Fifth Ave. New York 20. Write for your pocket pipe book in colors.



7-11111-11111-11111




CARBURETOR KAYWOODIE, \$7.50
The nicest of pipes

COOL
AIR

ENTERS HERE

Carburetor
Keeps bowl dry
makes smoke
extra mild

THE FIRST NIGHT
TO SECOND
PHASE OF THE WORK



MOVADO

TABLE 1. *Continued*

FOUND IN STITCHES AT LEADING JEWELERS ALL OVER THE WORLD

Order: 1041 Mine to Waste Agency, Inc., a not-for-profit
20 Toronto St., Toronto, Canada

A WONDERFUL AND UNUSUAL GIFT
 Appropriate from me to you if you are of the
 Christmas spirit. The "New Year" and "New
 Year" are the same.

NETS OF THE COAST OF CALIFORNIA. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934. 1935. 1936. 1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068. 2069. 2070. 2071. 2072. 2073. 2074. 2075. 2076. 2077. 2078. 2079. 2080. 2081. 2082. 2083. 2084. 2085. 2086. 2087. 2088. 2089. 2090. 2091. 2092. 2093. 2094. 2095. 2096. 2097. 2098. 2099. 2100. 2101. 2102. 2103. 2104. 2105. 2106. 2107. 2108. 2109. 2110. 2111. 2112. 2113. 2114. 2115. 2116. 2117. 2118. 2119. 2120. 2121. 2122. 2123. 2124. 2125. 2126. 2127. 2128. 2129. 2130. 2131. 2132. 2133. 2134. 2135. 2136. 2137. 2138. 2139. 2140. 2141. 2142. 2143. 2144. 2145. 2146. 2147. 2148. 2149. 2150. 2151. 2152. 2153. 2154. 2155. 2156. 2157. 2158. 2159. 2160. 2161. 2162. 2163. 2164. 2165. 2166. 2167. 2168. 2169. 2170. 2171. 2172. 2173. 2174. 2175. 2176. 2177. 2178. 2179. 2180. 2181. 2182. 2183. 2184. 2185. 2186. 2187. 2188. 2189. 2190. 2191. 2192. 2193. 2194. 2195. 2196. 2197. 2198. 2199. 2200. 2201. 2202. 2203. 2204. 2205. 2206. 2207. 2208. 2209. 2210. 2211. 2212. 2213. 2214. 2215. 2216. 2217. 2218. 2219. 2220. 2221. 2222. 2223. 2224. 2225. 2226. 2227. 2228. 2229. 2230. 2231. 2232. 2233. 2234. 2235. 2236. 2237. 2238. 2239. 2240. 2241. 2242. 2243. 2244. 2245. 2246. 2247. 2248. 2249. 2250. 2251. 2252. 2253. 2254. 2255. 2256. 2257. 2258. 2259. 2260. 2261. 2262. 2263. 2264. 2265. 2266. 2267. 2268. 2269. 2270. 2271. 2272. 2273. 2274. 2275. 2276. 2277. 2278. 2279. 2280. 2281. 2282. 2283. 2284. 2285. 2286. 2287. 2288. 2289. 2290. 2291. 2292. 2293. 2294. 2295. 2296. 2297. 2298. 2299. 2300. 2301. 2302. 2303. 2304. 2305. 2306. 2307. 2308. 2309. 2310. 2311. 2312. 2313. 2314. 2315. 2316. 2317. 2318. 2319. 2320. 2321. 2322. 2323. 2324. 2325. 2326. 2327. 2328. 2329. 2330. 2331. 2332. 2333. 2334. 2335. 2336. 2337. 2338. 2339. 2340. 2341. 2342. 2343. 2344. 2345. 2346. 2347. 2348. 2349. 2350. 2351. 2352. 2353. 2354. 2355. 2356. 2357. 2358. 2359. 2360. 2361. 2362. 2363. 2364. 2365. 2366. 2367. 2368. 2369. 2370. 2371. 2372. 2373. 2374. 2375. 2376. 2377. 2378. 2379. 2380. 2381. 2382. 2383. 2384. 2385. 2386. 2387. 2388. 2389. 2390. 2391. 2392. 2393. 2394. 2395. 2396. 2397. 2398. 2399. 2400. 2401. 2402. 2403. 2404. 2405. 2406. 2407. 2408. 2409. 2410. 2411. 2412. 2413. 2414. 2415. 2416. 2417. 2418. 2419. 2420. 2421. 2422. 2423. 2424. 2425. 2426. 2427. 2428. 2429. 2430. 2431. 2432. 2433. 2434. 2435. 2436. 2437. 2438. 2439. 2440. 2441. 2442. 2443. 2444. 2445. 2446. 2447. 2448. 2449. 2450. 2451. 2452. 2453. 2454. 2455. 2456. 2457. 2458. 2459. 2460. 2461. 2462. 2463. 2464. 2465. 2466. 2467. 2468. 2469. 2470. 2471. 2472. 2473. 2474. 2475. 2476. 2477. 2478. 2479. 2480. 2481. 2482. 2483. 2484. 2485. 2486. 2487. 2488. 2489. 2490. 2491. 2492. 2493. 2494. 2495. 2496. 2497. 2498. 2499. 2500. 2501. 2502. 2503. 2504. 2505. 2506. 2507. 2508. 2509. 2510. 2511. 2512. 2513. 2514. 2515. 2516. 2517. 2518. 2519. 2520. 2521. 2522. 2523. 2524. 2525. 2526. 2527. 2528. 2529. 2530. 2531. 2532. 2533. 2534. 2535. 2536. 2537. 2538. 2539. 2540. 2541. 2542. 2543. 2544. 2545. 2546. 2547. 2548. 2549. 2550. 2551. 2552. 2553. 2554. 2555. 2556. 2557. 2558. 2559. 2560. 2561. 2562. 2563. 2564. 2565. 2566. 2567. 2568. 2569. 2570. 2571. 2572. 2573. 2574. 2575. 2576. 2577. 2578. 2579. 2

\$10.00

SEND FOR FREE COMPLETE CATALOG

W. E. DIEMER, PH.D. STUDIO AND
LABORATORY

王 强 男，1985 年 10 月 10 日出生，汉族，住北京市朝阳区。身份证号：11010519851010XXXX。联系电话：1380105XXXX。

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1. The first step is to identify the problem. This involves understanding the current situation and the goals that need to be achieved.

11. *Environ. Monit. Assess.* 1997; 47: 1-10.

DOMORE CHAIR COMPANY, INC.
DEPT. 1217, ELKHART, INDIANA**DO/MORE** *Seating Source*

San Antonio

WHERE LOVE IS DIFFERENT

Write today for your copy of the
free, illustrated booklet.



See the heritage of Spanish colonial days . . . the Alamo, Shrine of Texas Liberty . . . the quaint old homes on La Villita . . . the Spanish Governor's Palace . . . four picturesque missions. Here are beauty, contrast and pleasure . . . the unique loveliness of the landscaped San Antonio River . . . great installations of the armed forces . . . dude ranches. Here are sports of all kinds . . . golf . . .

hunting, fishing. Here is your ideal vacation. For relaxation where life is different, visit colorful San Antonio on the Pan-American Highway to Old Mexico.

MUNICIPAL INFORMATION BUREAU
702 Insurance Bldg. — San Antonio 5, Texas

NAME _____

ADDRESS

7044

____ JUNE ____ STATE

Come along with MIAMI



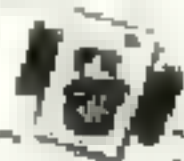
... for fun
... for rest ... for life!

Come along for tropical
sunshine this winter... or
sea-cool comfort next spring or summer.
Come any time for Miami's world-
famed glamour, gaiety and thrills
for quiet relaxation in a bright, new
world where life is richer in a
hundred happy ways!



While you're here
look around you at the
golden business and in-
dustry... the sunsets
offered by the nation's
fastest-growing Big
Business!

FREE COLOR FOLDER
26 natural color photos
of Miami living, recreation
and industry... with detailed
information to help you
plan your visit... the
Tropic Magazine
Miami's top
attraction



INFORMATION DIVISION, ROOM 304
CITY HALL MIAMI, FLORIDA

Name

Address

City State

grandest gift in the
Holiday
Picture



Leica

This Christmas give the finest photo-
graphic gift of all... a masterpiece
Leica camera. You'll win the warm
Christmas praise... make every holi-
day more memorable.

FOR LEICA OWNERS—Choose your
gift from more than 200 unique accessories.

Write to: E. LEITZ, Inc., 304 Hudson St., N.Y. 12, N.Y.



Central American Gifts



Cashmere
Sweater
Hand Sewn
High Collar
Bottom, \$15.95
Red Top \$3.14
Total \$19.14

Leather
Bag
Hand Sewn
High Collar
Bottom, \$15.95
Red Top \$3.14
Total \$19.14

Leather
Bag
Hand Sewn
High Collar
Bottom, \$15.95
Red Top \$3.14
Total \$19.14

Leather
Bag
Hand Sewn
High Collar
Bottom, \$15.95
Red Top \$3.14
Total \$19.14



Interwoven Socks

For Christmas

There are more than a thousand different Interwoven Socks from which to choose ...the worthwhile gift.



DOUBLE-CHECKED
for YOU

* REG. U.S. PAT. OFF.



I Wear False Teeth

yet my mouth feels
fresh, clean and cool—
thanks to Polident!

"I know that dental plates that feel hot and sticky are a warning sign . . . so I soak my plate in Polident to avoid Denture Breath."

Mrs. C. W. A. Dayton, Ohio

With Polident, I feel no more of that sticky, hot, burning sensation that is caused by denture breath.

And how good Polident is for your teeth's and Denture Plate's health and your family's health.

Remember, denture plates need the special care of a special denture cleanser. Use Polident every day. It's just what your permanent solution — for working and relaxing denture plates.

Soak plate or bridge
daily—Fifteen minutes
or more—in a fresh
cleaning solution of
Polident and water.

No Brushing



POLIDENT

Recommended by more dentists than any other denture cleanser



Amazing New Cream Holds Tighter,
Longer than anything you've ever
tried or double your money back

POLI-GRIP

For Safer Autumn Driving

Autumn, with its crisp, cool days, is usually one of the most pleasant seasons of the year for motoring—but this can be an illusion only when it is safe.

The President's Highway Safety Conference reports that the traffic fatality rate has dropped steadily in the postwar period from 11.3 for each 100,000,000 miles of vehicle travel in 1947 to 7.3 in 1948. While this is encouraging, the 12,000 automobile accident fatalities last year indicate the need for greater improvement.

Safety authorities agree that most accidents

are the result of *drivers' mistakes*. By far the most important cause of accidents is the failure of drivers to adjust speed to changing road and traffic conditions. For example, 50 per cent of all fatal accidents happen at night, when vision is obscured, and 14 per cent occur in inclement weather, when roads are slippery.

Traffic experts stress driving at reasonable speeds as one of the most important steps in reducing highway accidents. In addition, they make a number of other suggestions, some of which are illustrated below:



1. Vehicle defects are reported as contributing causes in many accidents. So, it is important to have your car completely checked at regular intervals to make sure it is in safe operating condition. Particular attention should be given at all times to brakes, tires, steering mechanism and lights.



3. Collisions frequently occur when cars are too close together. On dry pavements, a good rule is to allow one car length for every 10 miles of speed. This margin should be increased at night, on slippery roads, or at high speeds.



2. Skidding on slippery surfaces is a frequent cause of accidents. To help avoid this, brakes should be applied with light pressure, then released and applied again. Jamming the brakes on will lock the wheels and may cause a skid.



4. Emergencies need not always cause accidents if drivers know how to handle them. For example, when a tire blows out, keep a tight grip on the wheel and allow the car to slow down before applying the brakes. This makes it easier to prevent swerving or skidding.

The cardinal principle of safe driving is to keep your car under control at all times. Only by more and more motorists embracing this basic principle can the number of automobile accident fatalities be further reduced.

For more information, write for Metropolitan's free booklet, 120 pages called "How's Your Driving?"

Metropolitan Life Insurance Company

Metropolitan Life Insurance Company



1 Madison Ave., New York 10, N. Y.

Metropolitan Life Insurance Co.
1 Madison Avenue
New York 10, N. Y.

Please send me a free copy of your booklet, "How's Your Driving?"

Name _____
Street _____
City _____
State _____

"What a miracle you have in a Christmas watch!"

[illegible]

and the fact that the amount of
 the [unclear] [unclear] [unclear] [unclear]
 in [unclear] [unclear] [unclear] [unclear]
 to [unclear] [unclear] [unclear] [unclear]
 The [unclear] [unclear] [unclear] [unclear]



567 50 45 00-3
547 50 10 50
\$28 1/2

* $\chi^2_{0.05, 1} = 3.84$ 11.18 (1977, 1978, 1979, 1980, 1981)

ELGIN

TIMED TO THE STARS

Finally, I would like to mention that there are many other ways to improve your writing skills. You can take courses, attend workshops, or even hire a tutor. The key is to find a method that works best for you and stick to it.

The position of Interior is clear on your staff



Travel restricted

Kodak
SALES CORPORATION

*The best days of your life
 live again... in movies
you make yourself*



Give a Cine-Kodak Movie Camera

When you give a Cine-Kodak movie camera, you give a gift that will live again and again. Cine-Kodak cameras are simple to operate, easy to handle, and they capture the best of your life. They are the perfect gift for the person who loves to make movies. Cine-Kodak cameras are available in a variety of models. See your Kodak dealer for more information. Kodak is a registered trademark of Eastman Kodak Company, New Haven, Conn., U.S.A.



Cine-Kodak Magazine 8 Camera—small, lightweight, easy to handle. Perfect for the person who loves to make movies. Price \$199.95. See your Kodak dealer for more information.

Cine-Kodak Bellant Camera—small, lightweight, easy to handle. Perfect for the person who loves to make movies. Price \$249.95. See your Kodak dealer for more information.

Prices include Federal Tax

Now—new low prices on Cine-Kodak 8mm. Films... all Cine-Kodak Cameras! Most Kodak dealers arrange time payments, too.

© 1977 Eastman Kodak Company
 All rights reserved. Kodak is a registered trademark of Eastman Kodak Company. Cine-Kodak is a registered trademark of Eastman Kodak Company.

PEOPLE WHO MUST HEAR

INSIST ON "EVEREADY" BATTERIES!



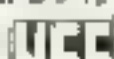
"I work with facts," says Miss Albert, one of the editors of the famous *Nation* magazine, "so I have to know that I'm getting the best. And I am fact that Eveready batteries give me the volume better hearing power. Incredibly few people even suspect I wear a hearing aid!"

Use your aid 8 to 16 hours a day? If you do, be sure to try the new "Eveready" "A" battery No. 1005E (for single unit hearing aids). It will last you three times as long as other "A" batteries of equal size!

This battery uses a radically new electrochemical principle to maintain long life and constant voltage.

See your hearing-aid dealer!



The trade-mark "Eveready" is a registered trademark of
NATIONAL CARBON COMPANY, INC.
30 East 42nd Street, New York 17, N. Y.
List of Union Carbide  and other companies

*Make Your
Plans Early*



FOR A
HAPPY VACATION

St. PETERSBURG
Florida



St. Petersburg is a beautiful city with a long beach, a large park, and a variety of shops and restaurants. It is a great place to relax and enjoy the sun and sand. The city is also known for its beautiful architecture and its rich history.

St. Petersburg is a beautiful city with a long beach, a large park, and a variety of shops and restaurants. It is a great place to relax and enjoy the sun and sand. The city is also known for its beautiful architecture and its rich history.

**ARENDS EASY-BOUND
BINDERS for your
Geographies**

**2 BINDERS
\$2.50**



Enjoy your Geographies for years to come! These binders are made of heavy, durable material and are designed to last.

These binders are made of heavy, durable material and are designed to last. They are perfect for keeping your geography books in good condition and easy to use.

ORDER NOW FOR THE SUMMER

DE LUXE BINDERS
Two for only \$3.75

These binders are made of heavy, durable material and are designed to last. They are perfect for keeping your geography books in good condition and easy to use.



SUCKERT LOOSE LEAF COVER CO.
234 W. Larned Street DETROIT 28 MICHIGAN

Send ☐ Arends Easy-Bound Binders for Year 4

Send ☐ Arends Deluxe Binders for Year 4

Will remit \$ in 3 days or return postage

Send information about binders for other magazines

Name

Address



Club

is expressed in the tastefully appointed interiors of Club and Dining cars . . . in the unobtrusive, courteous service you will find on the Union Pacific



Streamliner

"CITY OF LOS ANGELES" • "CITY OF SAN FRANCISCO" • "CITY OF PORTLAND"

These great Streamliners provide modern rail service between Chicago and the West Coast. Pullman accommodations and reserved Coach seats.

"CITY OF DENVER" Streamliner . . . overnight service between Chicago and Denver. Pullmans and reserved Coach seats.

Write for free, attractive booklets—California and Pacific Northwest. Address requests to Room 296, Union Pacific Railroad, Omaha, Neb.

UNION PACIFIC RAILROAD

"... because it expresses
so perfectly our life together"

In choosing your family monument you are thinking not of yourself alone but of your family of your children and other generations to come. Your monument is to be the symbol which binds inseparably the past to the present, the present to the future.

When you choose Rock of Ages you know that its dignity and beauty, the sharply defined detail of its carving and the lasting and the universal meaning of its individual design will be for many generations to see and to understand. Every Rock of Ages Family Monument is fully backed by a bonded guarantee to you, your heirs or descendants.

Many thoughtful people choose their family monument—as well as their cemetery plot—before the need arises. Write for "HOW TO CHOOSE A FAMILY MONUMENT," a large illustrated book available without charge or obligation. Simply write to Rock of Ages, Inc., N.Y. Or ask for a copy from the Rock of Ages Dealer in your community. You'll find his name in the Classified Section of the Telephone Directory.



ALWAYS REMEMBER THIS:



ROCK OF AGES

DURABLE GRANITE FAMILY MONUMENTS

Ask your dealer for proof of permanence in any cemetery



FUN FOR EVERYONE in

Ontario

Even the smallest member of the family has fun on a winter vacation in Ontario. Cozy guest accommodations in comfortable, moderately priced resorts in picturesque settings within easy reach. That's Winter in Ontario.



Write for this 16 illustrated booklet which fully describes Ontario's travel and vacation areas.

Ontario Travel,
846, Parliament Buildings,
Toronto 2, Ontario.
Please send me free information about Ontario.

NAME _____
STREET _____
CITY _____ STATE _____

HOT SPRINGS NATIONAL PARK, Arkansas

Just west of the town of Hot Springs, Arkansas, is the Hot Springs National Park. This is one of the most beautiful and healthful resorts in the United States. The park is famous for its natural mineral springs and its beautiful scenery. It is a great place to relax and enjoy the outdoors.

For more information, write to: **Hot Springs National Park, Arkansas.**

Hot Springs National Park is a beautiful area and is recommended by the U.S. Government.

Come ALL the way South

Down where the sun is warm and the water is blue, and the people are friendly. This is the South, and it's a great place to visit. The weather is just what you need, and the scenery is beautiful. Come and see it all.

W. A. Dwyer, Sec'y., **LEE COUNTY CHAMBER OF COMMERCE.**

FORT MYERS

Florida

ANNOUNCING A *Truly New Hearing Aid*



"Miniature" Hearing Aid

6½ OUNCES

COMPLETE AT

\$75

Amazing

IS THE WORD

THE NEW ZENITH "MINIATURE" HEARING AID (6½ OUNCES) \$75.

NEEDS NO "FITTING." READY TO WEAR.

**SMALL • light • POWERFUL • clear
ECONOMICAL**

Millions of dollars in research and 33 years of leadership in radioages have made the name Zenith famous the world over. This trade mark is a true quality mark—in hearing aids—Radio, FM and Television.

TRY IT AT HOME—

WITH PRIVILEGE OF RETURN

The Zenith "Miniature" Hearing Aid is sold with a clear understanding—you buy with the privilege of return.

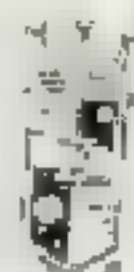
Why waste time reading about it—when you can be trying it—with ten days to try out for yourself.

You can purchase—or inquire—in one of two ways. Either from an Authorized Zenith Hearing Aid Dealer in your locality—or by addressing the factory direct.



Guarantee

—if—any hearing aid outperforms Zenith in both efficiency and economy—your money back (under our 10 day return privilege).



THE ROYALTY OF HEARING

**COMPARE
ONLY WITH
HIGH PRICED
HEARING
AIDS**

ZENITH RADIO CORPORATION

HEARING AID DIVISION • DEPT. 1264 • 5801 DICKENS AVE. • CHICAGO 39, ILL.

MAIL THIS COUPON FOR INFORMATION

For Names of Authorized Zenith Hearing Aid Dealers Consult Your Classified Telephone Directory.

(or write factory for complete dealer list)

Zenith Radio Corporation, Hearing Aid Division, Dept. 1264,
5801 Dickens Ave., Chicago 39, Illinois

Please send me free details and complete descriptive literature
(including time payment plan) on the new \$75 Zenith "Miniature"

Name

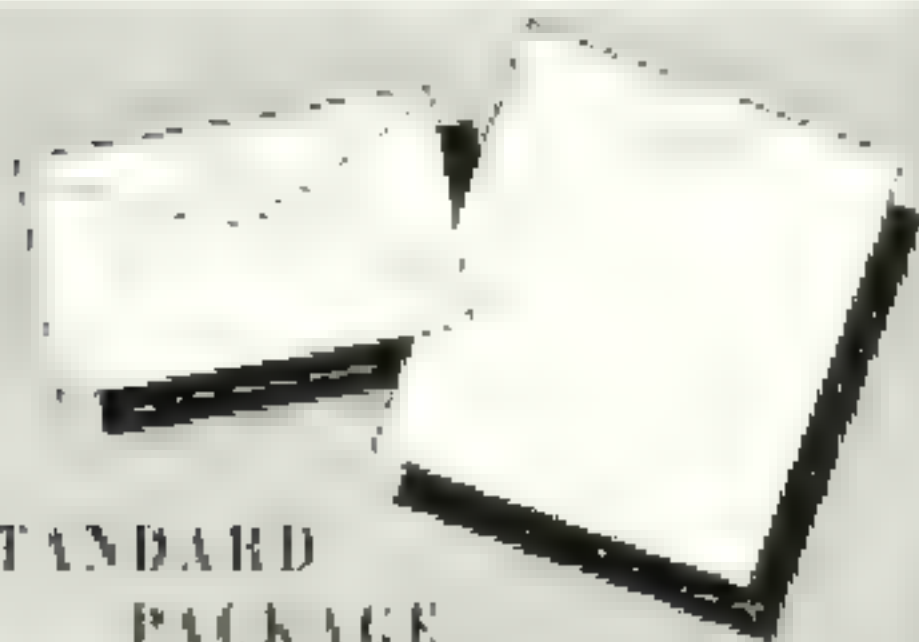
Address

City ..

Zone

State

Four Big Stationery Values!



**STANDARD
PACKAGE**

100 Standard White Cards
100 Standard White Envelopes
100 Standard White Cards
100 Standard White Envelopes

\$100



**ENVELOPE
PACKAGE**

100 Standard White Cards
100 Standard White Envelopes
100 Standard White Cards
100 Standard White Envelopes

\$100



**CORRESPONDENCE
CARD PACKAGE**

100 Standard White Cards
100 Standard White Envelopes
100 Standard White Cards
100 Standard White Envelopes

\$150



**DELUXE
PACKAGE**

100 Standard White Cards
100 Standard White Envelopes
100 Standard White Cards
100 Standard White Envelopes

\$200



**AMERICAN
STATIONERY**

THE FINE STATIONERY
IN THE PLAIN BOX

The quality is great. The price is excellent. The service is amazing. And these are just a few of the reasons why you should buy American Stationery. The American Stationery Company has a package to fit every occasion and household. Our reputation for excellence is well known in every home.

And it's more than just the quality of the paper. It's the quality of the service. Our customer service is truly exceptional. We'll help you choose the right package for your needs. And we'll make sure you're satisfied with every purchase.

The price is right. The quality is excellent. The service is amazing. And these are just a few of the reasons why you should buy American Stationery. The American Stationery Company has a package to fit every occasion and household. Our reputation for excellence is well known in every home.

Our customer service is truly exceptional. We'll help you choose the right package for your needs. And we'll make sure you're satisfied with every purchase. Our customer service is truly exceptional. We'll help you choose the right package for your needs. And we'll make sure you're satisfied with every purchase.

THE AMERICAN STATIONERY COMPANY
500 PARK AVENUE • PERU, INDIANA

LARGE TEN-COLOR WALL MAPS

National Geographic Society
Dept. E-N, Washington 6, D. C.

1949

Please send me items indicated below:

• These ten-color maps come on either paper or linen. *Indexes are available for maps marked with asterisk. All items are sent postage prepaid.

How Many Copies Desired

| | Paper Maps
30c each in U. S. & Poss.
Elsewhere 75c each | Linen Maps
\$1 each in U. S. & Poss.
Elsewhere \$1.25 each | Indexes
25c each in U. S. & Poss.
Elsewhere 50c each |
|--|---|--|--|
| Africa* | | | |
| Asia and Adjacent Areas* | | | |
| Atlantic Ocean | | | 2 |
| Australia* | | | |
| Bible Lands* | | | |
| British Isles* | | | |
| Canada, Alaska, Greenland* | | | |
| China* | | | |
| Classical Lands of Medit.* | | | |
| Countries of the Caribbean*
(Mex., Cen. Am., & West Indies) | | | |
| E. & W. Hemispheres | | | 2 |
| Europe & Mediterranean*
(Illustrative Jan. 1, 1939.) | 2 | | |
| Europe and Near East* | | | |
| Central Europe & Medit.* | | | |
| Germany & Approaches* | | | |
| India & Burma* | | | |
| Indian Ocean | | | 2 |
| Japan & Adjacent Regions
of Asia & Pacific Ocean* | | | |
| Japan & Korea in detail* | | | |
| North America* | | | |
| No. & So. Hemispheres* | | | |
| Pacific & Bay of Bengal* | | | |
| Pacific Ocean*
(With 12 Island Insets.) | | | |
| Philippines* | | | |
| South America* | | 2 | |
| Southeast Asia* | | | |
| Top of the World* | | | |
| The World* | | | |
| U. S. & R. (Russia)* | | | |
| Pocket Map of Central &
Suburban Wash., D. C. | | | Index
included in
Map |
| United States—1949* | | | |
| North Central U. S.* | | | |
| Northeast United States* | | | |
| Northwest United States | | 2 | 2 |
| South Central U. S.* | | | |
| Southeast United States* | | | |
| Southwest United States* | | | |

U. S. currencies shown indicate item is NOT available. Paper maps are folded for convenient filing. Linen maps are boxed.

Also copies Map Case, \$2.50 in U. S. & Poss. (elsewhere, \$2.75).

| | How Many Copies Desired |
|---------------------------------------|---|
| ENLARGED MAPS
On Heavy Chart Paper | Maps
\$2 each in U. S. & Poss.
Elsewhere \$2.25 |
| Bible Lands* | |
| United States* | |
| The World* | |
| No. & So. Hemispheres* | |

Enlarged Maps are mailed folded in U. S. and Possessions. Pocket maps may be successfully folding them again for mailing in all other places.

I enclose remittance of \$_____ payable in U. S. funds.

Name _____

Address _____

Make Timely Christmas Gifts for Friends of All Ages

YOU and your friends will find these accurate, timely maps a most useful aid in following and understanding swiftly moving world developments. Because the National Geographic Society's spelling is used by major press associations, place names in the news are easily found on these legible, large-scale charts. Masterpieces of cartography, attractive in appearance—ideal for wall mounting—they make distinctive Christmas gifts for students and adults in every walk of life.

Map Indexes: Available for maps marked with an asterisk (*) in the adjoining order blank; make easy the location of names on corresponding maps and describe the areas covered.

Map Case: This handy 7 $\frac{3}{4}$ x 10 $\frac{3}{4}$ -inch file, bound like a book, preserves maps for instant use. Ten pockets can hold 20 folded paper maps of standard sizes or 10 folded paper maps with indexes.

Enlarged Maps

Bible Lands—64 $\frac{1}{2}$ " x 44 $\frac{1}{2}$ ": Bible and classical students and teachers will welcome this *ten-color enlargement* of the timely map issued with the December, 1946, NATIONAL GEOGRAPHIC MAGAZINE. This legible map shows principal railroads, oil pipe lines, roads, ancient sites, 248 historical notes and references, 3,779 place names. Insets feature the Holy Land today and in Biblical times, Jerusalem, Crusades, routes of the Exodus and of Saint Paul.

United States—67" x 43 $\frac{1}{2}$ ": A superb *ten-color enlargement* of The Society's 1946 U. S. Map. This companion to the World Map listed below shows main highways, national parks and monuments, large dams and the reservoirs they create, canals, elevations, 10,750 place names. Special inset features Canadian Provinces east of Maine.

The World—67" x 43 $\frac{1}{2}$ ": Using Van der Grinten's projection, this *enlarged ten-color map* portrays the earth in one unified picture. Insets feature polar regions, spread of 1st and 2nd World Wars. Shows main railroads, time zones, 4,874 place names, elevations and depths, international boundaries as of Sept. 1, 1939.

No. & So. Hemispheres—67" x 35 $\frac{1}{2}$ ": Visualizes short cuts by air across polar regions. Air-line tables give 924 great-circle distances. Insets show time zones, deserts, farmland, forests, arctic tundra, etc. 4,262 place names. A useful, *ten-color enlargement*.



Prices: Please refer to coupon for separate prices in "U. S. & Poss." and "Elsewhere." Remittances should be payable in U. S. funds. All items sent postage prepaid.

Obtainable only from the NATIONAL GEOGRAPHIC SOCIETY, Dept. E-N, Washington 6, D. C.



Give Kodak's finest color slide projector

Miniature color slides take on new brilliance and clarity... reveal color and shadow detail you never dreamed were there. Powerful 1000-watt lamp; choice of five superb Lumenized lenses. With carrying case, from \$181 to \$295, depending on choice of lens. Many Kodak dealers offer convenient time payments... Eastman Kodak Co., Rochester 4, N.Y.

Kodaslide Projector Master Model

PLEASE FILL IN BLANKS BELOW. DETACH, AND MAIL TO THE SECRETARY

Recommendation for Membership IN THE NATIONAL GEOGRAPHIC SOCIETY

* *The Membership Dues, Which Are for the Calendar Year, Include
Subscription to the National Geographic Magazine*

To the Secretary, National Geographic Society,

Sixteenth and M Streets Northwest, Washington 6, D. C.:

1949

I nominate

PRINT NAME OF NOMINEE

Occupation

(This information is important for the records)

Address

PRINT ADDRESS OF NOMINEE

for membership in The Society.

Name of nominating member

PLEASE PRINT

Address

* DUES: Annual membership in United States, \$4.00; Canada, \$7.00; abroad, \$8.00. Life Membership, \$100.00 U. S. funds. Remittances should be payable to National Geographic Society. Remittances from outside of continental United States and Canada should be made by New York draft or international money order.

HE BRINGS AN ARMFUL OF COURTESY, TOO

The man who comes to install or repair your telephone brings something more to your home than equipment, tools and efficiency.

He brings courtesy and consideration and a genuine desire to please. He treats your home and the things in it as carefully as though they were his own—cleans up and puts everything back in place when he's finished.

He brings along the realization that he is the representative of thousands of telephone men and women you may never see—all working together to give you friendly, constantly improving telephone service at reasonable cost.



BELL TELEPHONE SYSTEM

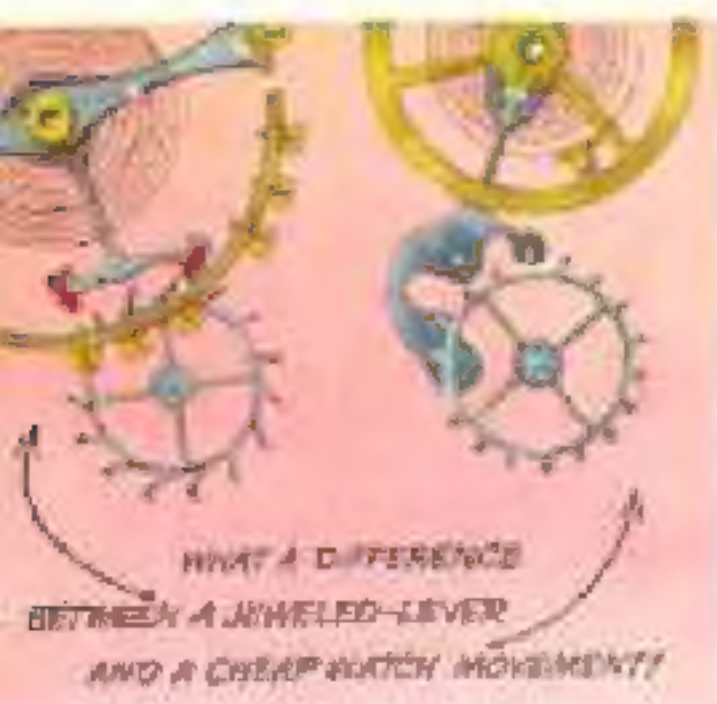




1. A watch is the perfect Christmas gift—for no gift can be more beautiful, more useful, more dependable. And no gift can be a finer reminder of you than a smartly styled watch with a quality Swiss movement. Your jeweler will show you many new types and styles of watches with Swiss jeweled-lever movements—each with a heritage of nearly 500 years of fine watchmaking.



2. See shock and water resistant, self-winding, calendar watches, chronographs, and combinations of these Swiss features. Be sure your new watch has a quality Swiss jeweled-lever movement.



3. Most important jewels in Swiss jeweled-lever movements, at pallet ends, are not found in cheap movements. Don't be fooled by so-called "bargains"—you usually get what you pay for!

What every Santa should know



4. The latest fashions in women's watches are made possible only by their tiny jeweled-lever movements. These superb mechanisms are what make smart Swiss watches such treasures of lasting pride.



5. Your watch can be serviced economically, promptly, if it has a jeweled-lever movement. And—when you buy—see a trusted jeweler, for the best quality Swiss watches in your price range.

For the gifts you'll give with pride—let your jeweler be your guide

The WATCHMAKERS OF



SWITZERLAND

© 1946 Swiss Federation of Watch Manufacturers